

shoulder anatomy model

shoulder anatomy model is an essential tool in understanding the complex structures and functions of the shoulder. This model serves as a valuable resource for medical professionals, educators, and students alike, providing a detailed representation of the shoulder joint, its associated muscles, ligaments, and bones. In this article, we will explore the various components of a shoulder anatomy model, its applications in education and healthcare, and the different types available in the market. Additionally, we will discuss the importance of understanding shoulder anatomy for injury prevention and rehabilitation. Through this comprehensive guide, you will gain insights into how shoulder anatomy models enhance learning and practical applications in the field of anatomy and medicine.

- Introduction to Shoulder Anatomy Models
- Components of Shoulder Anatomy Models
- Types of Shoulder Anatomy Models
- Applications in Education and Healthcare
- Importance of Understanding Shoulder Anatomy
- Factors to Consider When Choosing a Shoulder Anatomy Model
- Conclusion
- FAQs

Introduction to Shoulder Anatomy Models

The shoulder anatomy model is a three-dimensional representation designed to help visualize the intricate anatomy of the shoulder region. It includes detailed depictions of bones, muscles, tendons, and ligaments, allowing for a comprehensive understanding of the shoulder's structural and functional aspects. These models can vary in complexity, with some offering simplified views for educational purposes, while others provide highly detailed representations suitable for advanced study.

Shoulder anatomy models are utilized in various settings, including medical schools, clinics, and rehabilitation centers. They play a crucial role in educating students about human anatomy and assisting healthcare professionals in diagnosing and treating shoulder-related conditions. By visualizing the shoulder's components, users can better understand how injuries occur and the implications for treatment and rehabilitation.

Components of Shoulder Anatomy Models

A detailed shoulder anatomy model typically includes several key components that represent the various structures of the shoulder. Understanding these components is essential for effective learning and application in clinical settings.

Bones

The primary bones depicted in a shoulder anatomy model include:

- **Clavicle:** Also known as the collarbone, it connects the arm to the body.
- **Scapula:** The shoulder blade, which provides attachment points for muscles.
- **Humerus:** The upper arm bone that fits into the shoulder joint.

Muscles

Shoulder anatomy models also illustrate the major muscles involved in shoulder movement, including:

- **Rotator Cuff Muscles:** A group of four muscles that stabilize the shoulder joint.
- **Deltoid:** The primary muscle responsible for the shoulder's rounded contour and arm abduction.
- **Pectoralis Major:** A large muscle that aids in shoulder flexion and rotation.

Joint Structures

The shoulder joint itself is a ball-and-socket joint, and models often show:

- **Glenoid Cavity:** The shallow socket that holds the head of the humerus.
- **Labrum:** A fibrocartilaginous rim that deepens the socket.
- **Joint Capsule:** A fibrous tissue that encases the joint.

Types of Shoulder Anatomy Models

Shoulder anatomy models come in various types, each designed for specific educational or clinical purposes. Understanding the differences can help users select the most appropriate model for their needs.

3D Anatomical Models

These models provide a comprehensive view of the shoulder's anatomy, often featuring removable parts for detailed study. They are ideal for advanced education and detailed anatomical investigation.

Interactive Models

Some shoulder anatomy models offer interactive features, such as digital overlays or augmented reality components. These models enhance learning by allowing users to explore the anatomy dynamically.

Posters and Charts

While not three-dimensional, anatomical charts and posters serve as excellent supplementary materials for studying shoulder anatomy. They provide clear visuals and labeling of the various components.

Applications in Education and Healthcare

Shoulder anatomy models are invaluable in both educational and clinical settings. Their applications range from teaching to rehabilitation.

Educational Applications

In academic environments, shoulder anatomy models are used to:

- Facilitate lectures and presentations about human anatomy.
- Provide hands-on learning opportunities for students in anatomy courses.
- Enhance understanding of complex movements and muscle functions.

Clinical Applications

In healthcare settings, these models assist professionals by:

- Improving patient education regarding shoulder injuries and treatments.
- Supporting physical therapists in demonstrating rehabilitation exercises.
- Guiding surgical planning and discussions with patients about procedures.

Importance of Understanding Shoulder Anatomy

Comprehending shoulder anatomy is crucial for various reasons, particularly in injury prevention and rehabilitation. The shoulder is one of the most mobile joints in the body, which also makes it prone to injuries.

Injury Prevention

Understanding the anatomy of the shoulder helps individuals recognize risk factors associated with specific activities or sports. Knowledge of muscle and joint function can guide proper training techniques and ergonomic practices to prevent injuries.

Rehabilitation

For those recovering from shoulder injuries, a solid grasp of shoulder anatomy can facilitate better communication with healthcare providers about symptoms and progress. Rehabilitation exercises can be tailored based on an understanding of which muscles and structures need strengthening or stabilization.

Factors to Consider When Choosing a Shoulder Anatomy Model

Selecting the right shoulder anatomy model involves several factors to ensure it meets educational or clinical needs effectively.

Level of Detail

Models vary in complexity from basic representations to highly detailed anatomical structures. Consider the intended use: educational environments may benefit from simpler models, while clinical settings may require more complex versions.

Material Quality

The durability and realism of the model depend on the materials used. High-quality plastic or resin models often provide better longevity and detail.

Size and Portability

Depending on the intended use, the size and weight of the model may be important. Portable models can be beneficial for presentations and demonstrations in various settings.

Conclusion

Shoulder anatomy models are essential educational tools that enhance the understanding of the shoulder's complex anatomy. They serve multiple purposes in both educational and clinical environments, facilitating learning, injury prevention, and rehabilitation. By recognizing the various components and applications of these models, users can make informed decisions about their use in practice. Understanding the importance of shoulder anatomy not only aids professionals in their work but also empowers individuals to take better care of their shoulder health.

Q: What is a shoulder anatomy model?

A: A shoulder anatomy model is a three-dimensional representation that illustrates the anatomical structures of the shoulder, including bones, muscles, ligaments, and joints, used for educational and clinical purposes.

Q: How can shoulder anatomy models be used in education?

A: Shoulder anatomy models can enhance learning by providing visual aids for anatomy courses, helping students understand complex structures, and facilitating hands-on learning experiences.

Q: What are the main components of a shoulder anatomy model?

A: The main components typically include the clavicle, scapula, humerus, rotator cuff muscles, deltoid, and joint structures such as the glenoid cavity and labrum.

Q: What types of shoulder anatomy models are available?

A: Available types include 3D anatomical models, interactive models, and educational posters or charts, each serving different educational and clinical needs.

Q: Why is understanding shoulder anatomy important?

A: Understanding shoulder anatomy is crucial for injury prevention, rehabilitation, and effective communication between patients and healthcare providers regarding shoulder health.

Q: What factors should be considered when choosing a shoulder anatomy model?

A: Factors to consider include the level of detail, material quality, size, and portability of the model to ensure it meets specific educational or clinical needs.

Q: Can shoulder anatomy models assist in rehabilitation?

A: Yes, shoulder anatomy models can aid physical therapists by demonstrating exercises and helping patients understand their injuries and recovery processes.

Q: Are interactive shoulder anatomy models beneficial?

A: Interactive shoulder anatomy models offer enhanced learning experiences by allowing users to explore anatomical structures dynamically, making them particularly useful in advanced education.

Q: How do shoulder anatomy models contribute to patient education?

A: These models help healthcare professionals explain shoulder anatomy and injury mechanisms to patients, improving their understanding and engagement in treatment plans.

Q: What is the role of shoulder anatomy models in surgical planning?

A: Shoulder anatomy models assist surgeons in visualizing the anatomy prior to procedures, facilitating better planning and discussions with patients about surgical options.

[Shoulder Anatomy Model](#)

Find other PDF articles:

<https://ns2.kelisto.es/algebra-suggest-003/pdf?docid=gccq73-3362&title=algebra-sat-math-questions.pdf>

shoulder anatomy model: *Atlas of Functional Shoulder Anatomy* Giovanni Di Giacomo, Nicole Pouliart, Alberto Costantini, Andrea de Vita, 2008-09-25 The anatomy of the shoulder is based on complex joint biomechanics, which guarantee the coexistence of both maximum mobility and stability within the same joint. In recent years, diagnostic techniques such as magnetic resonance and arthroscopy have made it possible to study and better interpret those fine anatomical structures which were formerly very difficult to appreciate through open surgery dissection techniques that would compromise their integrity. Difficulties of technical nature, which today have been overcome thanks to technology, delayed the use of endoscopy in shoulder treatment thus filling the gap previously existing if compared with other joints surgery (i.e., knee). Shoulder arthroscopy, exploiting anatomical integrity, has contributed with excellent results to the identification of those structures that have been given little descriptive importance in classical texts. The purpose of this Atlas is to focus the reader's attention on a series of bone, ligament, muscle and tendon structures and ultrastructures on which only the most recent international literature has reported in specialized journals. This Atlas also presents extremely high-definition images of targeted sections obtained from cadavers preserved using state-of-art techniques. This unique Atlas, making use of images of major visual impact, offers a scientific message on a topical joint, using simple but dedicated descriptive language. Among the various aims of this volume, the authors intend to present the shoulder anatomy in a new and original way and want to help the reader to understand the complexity of scientific research, highlighting the importance of the integration of anatomical, biomechanical, and neurophysiological knowledge. The text is intended to complete the most recent and current anatomical studies of scientific research, enhancing those minimal structures to which a precise and clear mechanical and neurological role is now being attributed.

shoulder anatomy model: *Atlas of Functional Shoulder Anatomy* Mr. Rohit Manglik, 2024-03-07 EduGorilla Publication is a trusted name in the education sector, committed to empowering learners with high-quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels.

shoulder anatomy model: *Laboratory Manual For Clinical Kinesiology and Anatomy* Lynn S Lippert, Mary Alice Duesterhaus Minor, 2017-04-10 This "hands-on" learning tool is the perfect complement to the 6th Edition of Clinical Kinesiology and Anatomy! Divided into three sections, it will help you to prepare for lab, guide you through lab activities, and serve as an after-lab review that ensures you build a solid knowledge base of kinesiology.

shoulder anatomy model: *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.

shoulder anatomy model: *Shoulder Arthroplasty* Gilles Walch, Pascal Boileau, 2012-12-06 Success in shoulder arthroplastic surgery is not necessarily dependent only on the principle of

construction of a prosthetic device, nor on the way this device is implanted or fixed to the bony interface, but more so on the understanding and handling of the soft tissues surrounding the articulation. Based on their experience in basic anatomy and function, the editors of this book were able to develop a prosthetic device which can take into account individual anatomical variations in each patient, making a successful outcome of surgery much more predictable. This must-have for any shoulder surgeon not only informs on the current state-of-the-art, but also provides an understanding of what advances can be achieved with innovative thinking in the field of orthopaedic surgery.

shoulder anatomy model: Anatomic Shoulder Arthroplasty April D. Armstrong, Anand M. Murthi, 2016-07-08 Opening with a discussion of the indications and pre-operative evaluation of the arthritic shoulder and a review of the anatomy and biomechanics of the shoulder, this comprehensive clinical guide to anatomic shoulder arthroplasty then proceeds to describe the various types of prosthetics and management techniques used in this common surgical procedure. Humeral head resurfacing is described, along with stemmed and stemless replacements, followed by the anatomy and biomechanics of the glenoid using both standard and augmented replacement. Interposition shoulder arthroplasty, revision total shoulder arthroplasty, and hemiarthroplasty of the proximal humerus are likewise elaborated. Additional chapters on complications -- infection, periprosthetic fracture, subscapularis insufficiency and instability -- and rehabilitation techniques round out the presentation. *Anatomic Shoulder Arthroplasty* is an excellent resource for orthopaedic and shoulder surgeons and sports medicine practitioners, both new and veteran.

shoulder anatomy model: Rockwood and Matsen's The Shoulder E-Book Frederick A. Matsen, Frank A. Cordasco, John W. Sperling, Steven B. Lippitt, 2021-06-12 For 30 years, Rockwood and Matsen's *The Shoulder* has been the definitive leading reference for the evaluation and management of shoulder disorders. The 6th Edition continues the tradition of excellence with close oversight by world-renowned shoulder surgeon senior editor Frederick A. Matsen III along with co-editors Frank A. Cordasco, John W. Sperling and expert contributing authors from around the world. This comprehensive volume reflects current knowledge and pioneering techniques in its extensively revised and updated text, illustrations, and procedural videos, and features new Opinion Editorials and a new, easy-to-follow organization and layout. Shoulder surgeons of all levels, as well as residents, students, therapists, and basic scientists, will benefit from this must-have reference on all aspects of the shoulder. - Provides how-to guidance on the full range of both tried-and-true and recent surgical techniques, including both current arthroscopic methods and the latest approaches in arthroplasty. - Presents content in a new, easy-to-digest format with a restructured table of contents and an updated chapter layout for faster, more intuitive navigation. - Features 17 new Opinion Editorial chapters authored by key international thought leaders in shoulder and upper limb orthopaedics who were given free rein to discuss a topic of great personal importance. Sample topics include Revision Shoulder Arthroplasty: Tips to Facilitate Component Removal and Reconstruction and Use and Abuse of the Latarjet Procedure. - Contains new and updated content on instability repair, cuff repair, fracture management, and infection and outcome assessment, as well as greatly expanded coverage of arthroscopy. - Includes more than 60 updated video clips that provide step-by-step guidance on key procedures, as well as 2,200 full-color illustrations, x-rays, scans, and intraoperative photographs. - Offers scientifically based coverage of shoulder function and dysfunction to aid in the decision-making process. - Extends viewpoints on different procedures with expert opinions from international authorities, including dissenting and alternative views. - 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.

shoulder anatomy model: A Cadaver Model for Studying Shoulder Dynamics and Rotator Cuff Disease David Meenyoung Yun, 1998

shoulder anatomy model: The Shoulder Charles A. Rockwood, 2009-01-01 DVD.

shoulder anatomy model: Disorders of the Scapula and Their Role in Shoulder Injury W. Ben Kibler, Aaron D. Sciascia, 2017-05-27 This unique book - the first of its kind exclusive on disorders of

the scapula - is a concise but comprehensive summary of the evidence that will enable clinicians to understand the scapula from its functions to its dysfunctions and includes clinical guidelines and pearls to improve the clinician's competencies for the treatment of shoulder disorders. Organized logically, the book opens with a review of the baseline mechanics and pathomechanics of the scapula, proceeds to evaluation, then describes in detail the association of the scapula with specific shoulder problems, including rotator cuff disease, labral injuries, glenohumeral and multidirectional instability, clavicle fractures, acromioclavicular joint separation, and shoulder arthrosis. Subsequent chapters cover scapular muscle detachment, neurological injuries and winging, scapular fractures and snapping scapula, in addition to basic and complex rehabilitation strategies. Each chapter includes a summary section with clinical pearls. In the past, in-depth research and expertise regarding the scapula was minimal, but a widening interest has resulted in a volume of literature that makes it possible and imperative that it be collected in a single volume. Disorders of the Scapula and Their Role in Shoulder Injury will be an excellent resource for orthopedic and trauma surgeons, residents and fellows.

shoulder anatomy model: *The Shoulder and the Overhead Athlete* Sumant G. Krishnan, Richard J. Hawkins, Russell F. Warren, 2004 Written by a renowned multidisciplinary team of expert shoulder surgeons, athletic trainers, and physical therapists, this winning reference delivers the most comprehensive and up-to-date information on the evaluation, treatment, rehabilitation, and prevention of shoulder injuries in throwing and other overhead athletes. Included is critical information on shoulder anatomy and biomechanics, clinical examination, imaging, resistance training and core strengthening, and specific exercises for the overhead shoulder... plus state-of-the-art techniques for treatment and rehabilitation of each type of injury, including a separate section for pediatric overhead athletes. All physicians, coaches, trainers, strength and conditioning specialists, and therapists who care for overhead athletes at all levels of participation are sure to find this an indispensable resource. Book jacket.

shoulder anatomy model: *The Female Athlete E-Book* Rachel Frank, 2021-08-04 Of all the important factors that must be considered when assessing and treating an athlete, the impact of patient sex is perhaps the most critical, yet historically has often been neglected. The same injury in a male patient may present differently, sometimes in subtle ways, than in a female patient and may require a different treatment approach. *The Female Athlete*, edited by Dr. Rachel Frank, provides concise, expert coverage of the ways in which common sports medicine injuries present in female patients versus male patients, describing recent literature analyzing sex differences in injury patterns and available treatment options. - Provides a comprehensive review of key areas of importance related to care for women in sports, including the differences in care and treatment for male and female patients. - Covers many of the most common injuries female athletes face, including ACL injuries, shoulder instability, concussion, stress fractures, female overuse injuries, and more. - Considers prevention strategies, nutritional recommendations, as well as exercise recommendations for women during pregnancy.

shoulder anatomy model: *Fundamentals of the Shoulder* Gazi Huri, Mustafa Özkan, Kerem Bilsel, 2022-04-22 This book comprehensively covers both basic and clinical aspects of the shoulder, from its anatomy and biomechanics, to the diagnosis and treatment of a broad range of shoulder disorders. Designed as a practical and richly illustrated reference guide, it provides the reader with the essentials needed to evaluate and treat shoulder injuries, including radiologic assessments, rehabilitative techniques and surgical procedures (both open and arthroscopic). It includes extensive coverage of the anatomy and pathology, while clinical topics covered include fractures around the shoulder joint, sport injuries and arthroplasty. Written by an international team of experts, who share tips, pearls and pitfalls, as well as best practices from their own experience, the book will be of interest to orthopedic surgeons, physical therapists, rehabilitation specialists and biomechanists alike.

shoulder anatomy model: *The Athlete's Shoulder* James R. Andrews, Kevin E. Wilk, Michael M. Reinold, 2008-10-30 The latest edition of this in-depth look at athletic injuries of the shoulder has

been updated to feature 16 new chapters, additional illustrations and algorithms, an added focus on arthroscopic treatments, and pearls that highlight key information. Additional contributing authors give you a fresh spin on new and old topics from rehabilitation exercises to special coverage of female athletes, pediatrics, and golfers. This book offers coverage of arthroscopy, total joint replacement, instability, football, tennis, swimming, and gymnastic injuries, rotator cuff injuries, and much, much more! The large range of topics covered in this text ensures that it's a great resource for orthopaedists, physical therapists, athletic trainers, and primary care physicians. - Presents a multidisciplinary approach to the care of the shoulder, combining contributions from the leaders in the field of orthopedic surgery, physical therapy, and athletic training. - Demonstrates which exercises your patients should perform in order to decrease their chance of injury or increase strength following an injury through illustrated exercises for rehabilitation and injury prevention. - Illustrates how the shoulder is affected during activity of certain sports with a variety of tables and graphs. - Covers a large range of topics including all shoulder injuries to be sufficiently comprehensive for both orthopaedists and physical therapists/athletic trainers. Features 16 new chapters, including Internal Impingement, Bankarts: Open vs. Arthroscopy, Adhesive Capsulitis of the Shoulder, Cervicogenic Shoulder Pain, Proprioception: Testing and Treatment, and more. - Details current surgical and rehabilitation information for all aspects of shoulder pathology to keep you up-to-date. - Organizes topics into different sections on anatomy, biomechanics, surgery, and rehabilitation for ease of reference.

shoulder anatomy model: Shoulder Instability: A Comprehensive Approach Matthew T. Provencher, Anthony A. Romeo, 2011-12-07 *Shoulder Instability*, by Drs. Mark Provencher and Anthony Romeo, is the first comprehensive resource that helps you apply emerging research to effectively manage this condition using today's best surgical and non-surgical approaches. Detailed illustrations and surgical and rehabilitation videos clearly demonstrate key techniques like bone loss treatment, non-operative rehabilitation methods, multidirectional instability, and more. You'll also have access to the full contents online at www.expertconsult.com. Watch surgical and rehabilitation videos online and access the fully searchable text at www.expertconsult.com. Stay current on hot topics including instability with bone loss treatment, non-operative rehabilitation methods, multidirectional instability, and more. Gain a clear visual understanding of the treatment of shoulder instability from more than 850 images and illustrations. Find information quickly and easily with a consistent format that features pearls and pitfalls, bulleted key points, and color-coded side tabs. Explore shoulder instability further with annotated suggested readings that include level of evidence.

shoulder anatomy model: *Shoulder Arthroscopy* Giuseppe Milano, Andrea Grasso, 2013-12-16 *Shoulder Arthroscopy - Principles and Practice* is a comprehensive and fully up-to-date work covering all major shoulder problems and related arthroscopic treatments. Two sections on basic science and principles of shoulder arthroscopy will provide essential information to build primary knowledge on shoulder arthroscopy issues. Shoulder problems and related treatments will be described according to a learning pathway, which will allow the readers to improve their knowledge and skills in shoulder arthroscopy from simple, standardized techniques to more complex and advanced procedures. All chapters will be written by expert arthroscopic surgeons who will provide decision-making algorithms for diagnosis and treatment of shoulder disorders, step-by-step instructions on arthroscopic techniques, and technical "tips & pearls" on how they would perform the procedure. Dedicated section on outcome measurements will help readers in learning principles of outcome research on the topics of the book.

shoulder anatomy model: **The Shoulder E-Book** Charles A. Rockwood, Michael A. Wirth, 2009-01-19 Significantly revised and updated, the new edition of this highly regarded reference on the shoulder continues to impress. A multitude of leading international authorities—30% new to this 4th edition—present today's most comprehensive, in-depth view of the current state of shoulder practice, all in a beautifully illustrated, full-color 2-volume masterwork. They deliver the most up-to-date coverage of shoulder function and dysfunction, along with practical approaches for

patient evaluation and balanced discussions of treatment alternatives—open and arthroscopic, surgical and nonsurgical. Greatly expanded and visually enhanced coverage of arthroscopy, as well as many new chapters, provide expert guidance on the latest minimally invasive approaches. New “Critical Points summary boxes highlight key technical tips and pearls, and two DVDs deliver new videos that demonstrate how to perform open and arthroscopic procedures. And now, as an Expert Consult title, this thoroughly updated 4th edition comes with access to the complete fully searchable contents online, as well as videos of arthroscopic procedures from the DVDs—enabling you to consult it rapidly from any computer with an Internet connection. Includes tips and pearls from leaders in the field, as well as their proven and preferred methods. Offers scientifically based coverage of shoulder function and dysfunction to aid in the decision-making process. Provides a balance between open and arthroscopic techniques so you can choose the right procedures for each patient. Includes the entire contents of the book online, fully searchable, as well as procedural videos from the DVDs, for quick, easy anywhere access. Features 30% new expert contributors and new chapters, including Effectiveness Evaluation and the Shoulder, Revision of Rotator Cuff Problems, Management of Complications of Rotator Cuff Surgery, Management of Infected Shoulder Prosthesis, and others, providing you with abundant fresh insights and new approaches. Provides new and expanded material on the management of advanced arthritis and CTA, infected arthroplasty, procedures to manage the stiff shoulder, and much more keeping you on the cusp of the newest techniques. Offers enhanced coverage of shoulder arthroscopy, including basic and advanced techniques and complications, for expert advice on all of the latest minimally invasive approaches. Devotes an entire new chapter to research frontiers to keep you apprised of what’s on the horizon. Incorporates “Critical Points summary boxes that highlight key technical tips and pearls. Uses a new full-color design for optimal visual guidance of arthroscopic views and procedures. Presents new videos on arthroscopic procedures on 2 DVDs to help you master the latest techniques.

shoulder anatomy model: Advances in Musculoskeletal Modeling and their Application to Neurorehabilitation Naser Mehrabi, John McPhee, Mohammad S. Shourijeh, Benjamin J. Fregly, 2020-12-10 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

shoulder anatomy model: Reverse Shoulder Arthroplasty Mark Frankle, Scott Marberry, Derek Pupello, 2015-10-20 Focusing exclusively on reverse shoulder arthroplasty (RSA) techniques and devices, this plentifully illustrated text covers all aspects of this important and innovative treatment for shoulder pain and dysfunction. The book begins with a history of RSA followed by a thorough overview of the basic science and biomechanics of the shoulder. Indications for and clinical applications of RSA in a number of surgical interventions are then described, including the revision of failed shoulder arthroplasty, setting in cases of glenoid and humeral bone loss and rotator cuff tears. A whole section is then dedicated to various commercial devices with descriptive expert analysis of the design and implementation of each. An examination of the current economic value of RSA, including cost effectiveness and expected cost outcomes, comprises the final section. Reverse Shoulder Arthroplasty can therefore be read either from start to finish, allowing orthopedic surgeons to appreciate the various perspectives offered, or by selecting specific topics of interest much like a “how-to manual” of either a particular device design or the treatment of a specific pathology.

shoulder anatomy model: Shoulder Arthroscopy and MRI Techniques Georg Lajtai, Stephen J. Snyder, Gregory Applegate, Gernot Aitzetmüller, Christian Gerber, 2013-12-20 Shoulder Arthroscopy and MRI Techniques is an authoritative text on the various techniques in arthroscopic surgery of the shoulder joint. International experts in the field cover the whole spectrum of the state

of the art. Clear and self-explanatory illustrations depict the operative procedures in a step-by-step manner. The authors communicate tips and tricks, thus enabling the reader to easily reproduce the procedures with the desired results. Through direct comparison between arthroscopic and MRI photographs the surgeon will be able to correlate the two and draw important conclusions. Another focus is placed on post-operative MRI evaluation. The reader is provided with up-to-date information and a valuable guide in his daily routine.

Related to shoulder anatomy model

Shoulder Pain: Causes, Symptoms, and Treatments - WebMD Shoulder joints can have their fair share of problems. Learn about common problems and injuries, and tips on how to treat a painful shoulder

Shoulder Pain: 11 Common Conditions and Causes Common conditions that cause shoulder pain So, what might be causing all this pain in your shoulder? Here are 11 possible reasons for your sudden discomfort

Shoulder Pain and Common Shoulder Problems - OrthoInfo Because so many structures make up the shoulder, it is vulnerable to many different problems and injuries. This article explains some of the common causes of shoulder pain and describes

25 Common Causes of Shoulder Pain - The Orthopedic Clinic Learn about the most common causes of shoulder pain, potential treatment options, and when to see an orthopedic physician with this helpful guide

What Your Shoulder Pain Might Be Trying To Tell You Learn to decode shoulder pain symptoms with expert guidance. Discover when to rest, when to stretch, and when shoulder pain needs medical attention

Strong shoulders start at your shoulder blades: Why scapular 1 day ago In the fourth of a five-part series, Dana Santas explains how strong scapular muscles promote healthy shoulders, better posture and a pain-free upper body

Shoulder Injuries and Disorders - MedlinePlus Your shoulders can be affected by injuries such as sprains, strains and rotator cuff tear. Learn how to treat and prevent shoulder pain and injury

7 causes of shoulder pain without injury | HealthPartners Blog Shoulder pain without injury is a common issue and is often managed with treatment. Find out what could be making your shoulder hurt and when to see a doctor

Common Causes of Shoulder Pain - EmergeOrtho Discover the most common causes of shoulder pain, how to alleviate discomfort, and when to seek medical treatment

Shoulder Pain and Problems - Johns Hopkins Medicine Although the shoulder is the most movable joint in the body, it is also an unstable joint because of its range-of-motion. Because the ball of the upper arm is larger than the socket of the shoulder,

Shoulder Pain: Causes, Symptoms, and Treatments - WebMD Shoulder joints can have their fair share of problems. Learn about common problems and injuries, and tips on how to treat a painful shoulder

Shoulder Pain: 11 Common Conditions and Causes Common conditions that cause shoulder pain So, what might be causing all this pain in your shoulder? Here are 11 possible reasons for your sudden discomfort

Shoulder Pain and Common Shoulder Problems - OrthoInfo - AAOS Because so many structures make up the shoulder, it is vulnerable to many different problems and injuries. This article explains some of the common causes of shoulder pain and describes

25 Common Causes of Shoulder Pain - The Orthopedic Clinic Learn about the most common causes of shoulder pain, potential treatment options, and when to see an orthopedic physician with this helpful guide

What Your Shoulder Pain Might Be Trying To Tell You Learn to decode shoulder pain symptoms with expert guidance. Discover when to rest, when to stretch, and when shoulder pain needs medical attention

Strong shoulders start at your shoulder blades: Why scapular 1 day ago In the fourth of a five-part series, Dana Santas explains how strong scapular muscles promote healthy shoulders, better posture and a pain-free upper body

Shoulder Injuries and Disorders - MedlinePlus Your shoulders can be affected by injuries such as sprains, strains and rotator cuff tear. Learn how to treat and prevent shoulder pain and injury

7 causes of shoulder pain without injury | HealthPartners Blog Shoulder pain without injury is a common issue and is often managed with treatment. Find out what could be making your shoulder hurt and when to see a doctor

Common Causes of Shoulder Pain - EmergeOrtho Discover the most common causes of shoulder pain, how to alleviate discomfort, and when to seek medical treatment

Shoulder Pain and Problems - Johns Hopkins Medicine Although the shoulder is the most movable joint in the body, it is also an unstable joint because of its range-of-motion. Because the ball of the upper arm is larger than the socket of the

Shoulder Pain: Causes, Symptoms, and Treatments - WebMD Shoulder joints can have their fair share of problems. Learn about common problems and injuries, and tips on how to treat a painful shoulder

Shoulder Pain: 11 Common Conditions and Causes Common conditions that cause shoulder pain So, what might be causing all this pain in your shoulder? Here are 11 possible reasons for your sudden discomfort

Shoulder Pain and Common Shoulder Problems - OrthoInfo Because so many structures make up the shoulder, it is vulnerable to many different problems and injuries. This article explains some of the common causes of shoulder pain and describes

25 Common Causes of Shoulder Pain - The Orthopedic Clinic Learn about the most common causes of shoulder pain, potential treatment options, and when to see an orthopedic physician with this helpful guide

What Your Shoulder Pain Might Be Trying To Tell You Learn to decode shoulder pain symptoms with expert guidance. Discover when to rest, when to stretch, and when shoulder pain needs medical attention

Strong shoulders start at your shoulder blades: Why scapular 1 day ago In the fourth of a five-part series, Dana Santas explains how strong scapular muscles promote healthy shoulders, better posture and a pain-free upper body

Shoulder Injuries and Disorders - MedlinePlus Your shoulders can be affected by injuries such as sprains, strains and rotator cuff tear. Learn how to treat and prevent shoulder pain and injury

7 causes of shoulder pain without injury | HealthPartners Blog Shoulder pain without injury is a common issue and is often managed with treatment. Find out what could be making your shoulder hurt and when to see a doctor

Common Causes of Shoulder Pain - EmergeOrtho Discover the most common causes of shoulder pain, how to alleviate discomfort, and when to seek medical treatment

Shoulder Pain and Problems - Johns Hopkins Medicine Although the shoulder is the most movable joint in the body, it is also an unstable joint because of its range-of-motion. Because the ball of the upper arm is larger than the socket of the shoulder,

Shoulder Pain: Causes, Symptoms, and Treatments - WebMD Shoulder joints can have their fair share of problems. Learn about common problems and injuries, and tips on how to treat a painful shoulder

Shoulder Pain: 11 Common Conditions and Causes Common conditions that cause shoulder pain So, what might be causing all this pain in your shoulder? Here are 11 possible reasons for your sudden discomfort

Shoulder Pain and Common Shoulder Problems - OrthoInfo Because so many structures make up the shoulder, it is vulnerable to many different problems and injuries. This article explains some of the common causes of shoulder pain and describes

25 Common Causes of Shoulder Pain - The Orthopedic Clinic Learn about the most common

causes of shoulder pain, potential treatment options, and when to see an orthopedic physician with this helpful guide

What Your Shoulder Pain Might Be Trying To Tell You Learn to decode shoulder pain symptoms with expert guidance. Discover when to rest, when to stretch, and when shoulder pain needs medical attention

Strong shoulders start at your shoulder blades: Why scapular 1 day ago In the fourth of a five-part series, Dana Santas explains how strong scapular muscles promote healthy shoulders, better posture and a pain-free upper body

Shoulder Injuries and Disorders - MedlinePlus Your shoulders can be affected by injuries such as sprains, strains and rotator cuff tear. Learn how to treat and prevent shoulder pain and injury

7 causes of shoulder pain without injury | HealthPartners Blog Shoulder pain without injury is a common issue and is often managed with treatment. Find out what could be making your shoulder hurt and when to see a doctor

Common Causes of Shoulder Pain - EmergeOrtho Discover the most common causes of shoulder pain, how to alleviate discomfort, and when to seek medical treatment

Shoulder Pain and Problems - Johns Hopkins Medicine Although the shoulder is the most movable joint in the body, it is also an unstable joint because of its range-of-motion. Because the ball of the upper arm is larger than the socket of the shoulder,

Shoulder Pain: Causes, Symptoms, and Treatments - WebMD Shoulder joints can have their fair share of problems. Learn about common problems and injuries, and tips on how to treat a painful shoulder

Shoulder Pain: 11 Common Conditions and Causes Common conditions that cause shoulder pain So, what might be causing all this pain in your shoulder? Here are 11 possible reasons for your sudden discomfort

Shoulder Pain and Common Shoulder Problems - OrthoInfo Because so many structures make up the shoulder, it is vulnerable to many different problems and injuries. This article explains some of the common causes of shoulder pain and describes

25 Common Causes of Shoulder Pain - The Orthopedic Clinic Learn about the most common causes of shoulder pain, potential treatment options, and when to see an orthopedic physician with this helpful guide

What Your Shoulder Pain Might Be Trying To Tell You Learn to decode shoulder pain symptoms with expert guidance. Discover when to rest, when to stretch, and when shoulder pain needs medical attention

Strong shoulders start at your shoulder blades: Why scapular 1 day ago In the fourth of a five-part series, Dana Santas explains how strong scapular muscles promote healthy shoulders, better posture and a pain-free upper body

Shoulder Injuries and Disorders - MedlinePlus Your shoulders can be affected by injuries such as sprains, strains and rotator cuff tear. Learn how to treat and prevent shoulder pain and injury

7 causes of shoulder pain without injury | HealthPartners Blog Shoulder pain without injury is a common issue and is often managed with treatment. Find out what could be making your shoulder hurt and when to see a doctor

Common Causes of Shoulder Pain - EmergeOrtho Discover the most common causes of shoulder pain, how to alleviate discomfort, and when to seek medical treatment

Shoulder Pain and Problems - Johns Hopkins Medicine Although the shoulder is the most movable joint in the body, it is also an unstable joint because of its range-of-motion. Because the ball of the upper arm is larger than the socket of the shoulder,