

Disclosure Information

- Disclosure of Relevant Financial Relationships
- Disclosure of Off-Label and/or investigative Uses • I will not discuss off label use and/or investigational use in my presentation.

Bio

- Medical School and Orthopedic Surgery Residency at the University of New Mexico
- Fellowship in Sports Medicine at Houston Methodist Hospital
- Team Physician Houston Astros, Rice University and Barbers Hill High School

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Objectives

stand the Basic Anatomy of the Shoulde cuss Epidemiology and Risk Factors: Examine the prevalence of shoulder par common risk factors.

Differentiate Between Acute and Chronic shoulder Pain Etiologies:

 Identify causes of acute vs. chronic shoulder pain, including trau:ma, c inflammatory processes.

4. Learn Physical Exam Techniques and Diagnostic Maneuvers

iew Diagnostic Work-Up Protocols: Understand indications for imaging and lab effectively.

is on Specific Conditions: Deepen understanding of sho

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ore Evidence-Based Treatment Options: Outline conservative, pharmacological, and sur specialized care.













CERVICAL RADICULOPATHY

Shoulder Pain Etiology

- Chronic Causes
- 1. Degenerative Conditions
- Rotator cuff tendinopathy: Progressive tendon wear.
 Glenohumeral osteoarthritis: Cartilage degeneration in the shoulder
- Acromioclavicular (AC) joint arthritis: Pain localized to the AC joint.
- 2. Repetitive Strain Injuries Impingement syndrome: Compression of tendons or bursa under the acromion.
- Chronic instability: Recurrent shoulder dislocations leading to pain.
- 3. Adhesive Capsulitis (Frozen Shoulder)
 - Stiffness and pain due to thickening of the joint capsule.
 - Common in diabetics and post-injury.

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1. Cervical Spine Pathology



- Pain radiating to the shoulder, often accompanied by neck stiffness.
- 2. Cardiac Causes Myocardial infarction: May present as left shoulder pain (referred pain).
- 3. Visceral Pathology
 - Gallbladder disease (cholecystitis): Right shoulder referred pain via the phrenic nerve.
 - Pulmonary conditions (e.g., Pancoast tumor, pneumonia): Shoulder pain due to shared nerve pathways.

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Diagnostic Work-up Onset: Acute vs. gradual. Location: Localized (e.g., anterior, posterior) or diffuse. Nature: Sharp, dull, throbbing, or radiating. Aggravating/Relieving Factors: Movement, rest, overhead activities. Functional Limitations: Difficulty with activities of daily living (e.g., dressing, lifting objects). Associated Symptoms:

- Weakness, instability, stiffness, swelling, or numbness,
- Occupational and Recreational History:
 Repetitive overhead activities or trauma
- Medical History:

Prior injuries, surgeries, or systemic conditions (e.g., diabetes, rheumatoid arthritis).

































Treatment

- MOON Study Predictors
- Patient Expectations Patients who believed physical therapy would not suffice were more likely to opt for surgery.
- Demographics and Activity Level
 Patient-Centered Care Younger, more active patients were more likely to choose surgical options after trying conservative treatments.
- Clinical Implications Managing patient expectations is critical to ensuring compliance with nonoperative strategies.
- Implications Conservative First-Line
 Approach Physical therapy is recommended as the initial treatment for atraumatic rotator cuff tears.
 - Individualize treatment plans based on patient activity level, age, and expectations.
- Patient Education Educate patients about the effectiveness and sustainability of nonoperative treatments to influence informed decision-making.

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