

Objectives

- Recognize the most common causes of chronic shoulder pain in elderly women
- Review the conservative treatment options
- Discuss when surgery may be necessary



Case #1



Case #1: History

- AR is a 75 yo RHD female with a 5 yr h/o worsening R anterior shoulder pain
- · No history of trauma
- Pain is worse with use, but present at rest
- She reports catching/grinding with use
- · Heating pad helps
- No other treatment



Case #1: Physical Exam

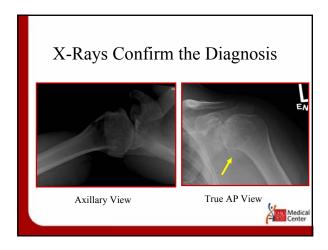
- No atrophy
- Mild posterior tenderness
- Motion:
 - -R: ER= 20°; FE = 100°; IR = buttock
 - L: ER = 70°; FE = 160°; IR = T7
 - Active = Passive
 - Pain with ROM
- · No Strength deficits



Case #1: Audience: Diagnosis?

- A) Rotator cuff tear
- B) Frozen Shoulder
- C) Glenohumeral Osteoarthritis
- D) Stress Fracture of Proximal Humerus





Osteoarthritis of the GH Joint

- Uncommon compared to other joints
- Highest typical age of onset
- More common in females
- Shoulder is a non-weight bearing joint!!



Biology of Arthritis

- · Articular Cartilage:
 - Thinning/fibrillations/fissuring \rightarrow full loss
- · Osteophytes on HH/Glenoid
 - Occupy volume and restrict motion
- Asymmetric Capsular Contracture
- Anterior capsule/subscapularis
- · Osteochondral loose bodies
- · Synovial inflammation



Primary Symptoms

- · Progressive pain
 - Mechanical
 - Inflammatory
- Global loss of motion, but substantial:
 - ER tightness
 - Loss of FE
- · Sense of weakness
 - True RTC pathology is rare
 - But, may see dysfunction
- · Difficulty sleeping at night



Conservative Treatment

- · Activity Modification
- Heat/ice
- Medications
 - NSAIDS/Cox2's
- · Physical Therapy
- Injections: Glenohumeral joint
 - Cortisone
 - Viscosupplementation?

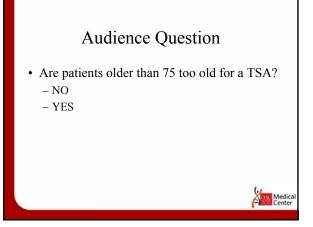


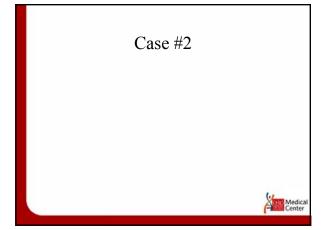
Surgical Options

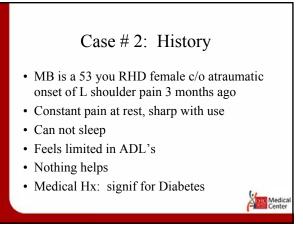
- Arthroscopy/debridement
 - No real proven effect only temporizing
 - True rotator cuff problems rare
- TSA
 - Results better with a glenoid replacement
 - Consistent/good results











Case #2: PE • No atrophy • No one area truly tender • Exam very difficult due to pain • ROM - L: ER 40/FE 110/IR buttock - R: ER 70/FE 170/IR T7 - Active=Passive • Strength difficult to test due to pain



Adhesive Capsulitis (Frozen Shoulder)

- · Loss of passive and active motion
- Soft-tissue contracture blocks motion
- Thick, inflammed, contracted joint capsule
- Decreased intra-articular volume
- · Limits motion



Etiology

- **Idiopathic** unclear pathogenesis
- Immunologic
- Inflammatory
- Endocrine/biochemical abnl
- DIABETES MELLITUS
- CV disease
- Neurologic/cervical conditions



Stages of Frozen Shoulder

- Initial Inflammatory Stage
 - Could be 3-9 months!
- Frozen Stage
 - Not nearly as painful see true stiffness
- Thawing Stage
 - No pain, motion resolving
 - Could take years to completely resolve



With This History, Do You Need an MRI?

- YES
- NO



Imaging

- · Radiographs rarely clarify cause
- Confirm normal GH joint
- · Arthrography
 - Confirms decreased joint space capacity
 - No longer really performed
- MRI
 - Not really necessary
 - Will show additional pathology



Treatment

- · Intensive physical therapy
 - Including HEP stretches 4xday
 - Most improve after 6-12 weeks
 - Continue at home with HEP only
 - Diabetics often more resistant to therapy
 - All patients need to put in a true intensive effort
- · May be difficult in inflammatory stage
 - Intra-articular cortisone injection
 - Hea
 - NSAIDS/Narcotics*



Surgery?

- Rare
- More often in diabetics
- **NEVER** operate during inflammatory stage!
- **ONLY** if no pain, but still stiff
 - Manipulation
 - Arthroscopic capsular release



