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Grew up in NW suburbs of Chicago

University of Wisconsin-Madison

Loyola University Medical School

Northwestern University Orthopaedic Residency

University of Washington Shoulder/Elbow Fellowship

Board Certified American Board of Orthopaedic Surgery (ABOS) 2011









Chicago Cubs

Orthopaedic Consultant

- Game Coverage
- Spring Training
- Coordination of Treatment
- Conduit to Trainers and GM

→ Unique perspective to treatment of orthopaedic conditions















Exam Works

Treating MD Sports Agent

Manager

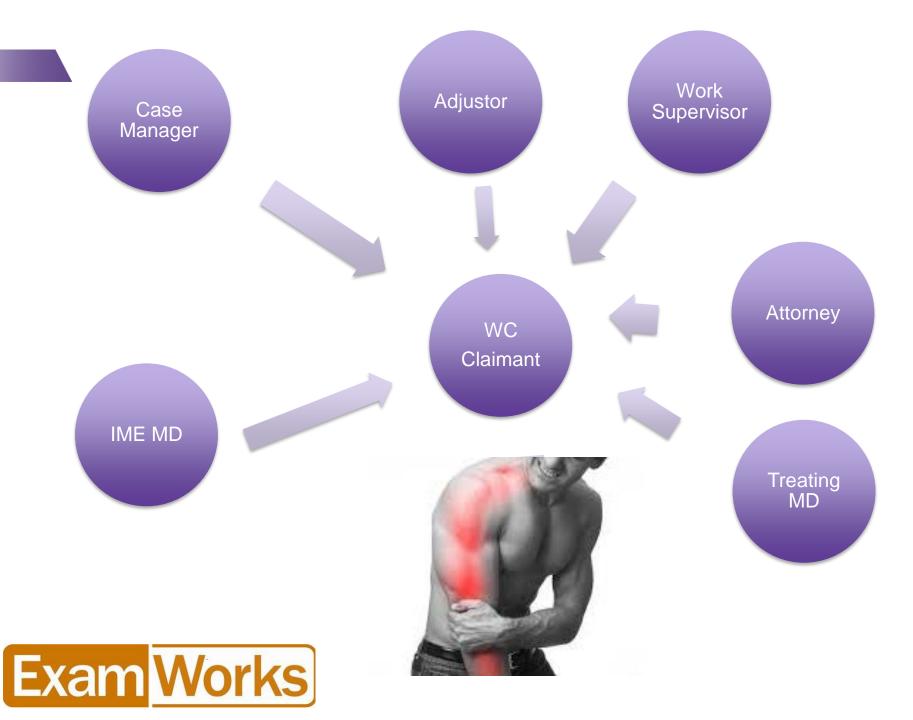
Athlete

Front Office

Second opinion MD







Common Elbow Conditions

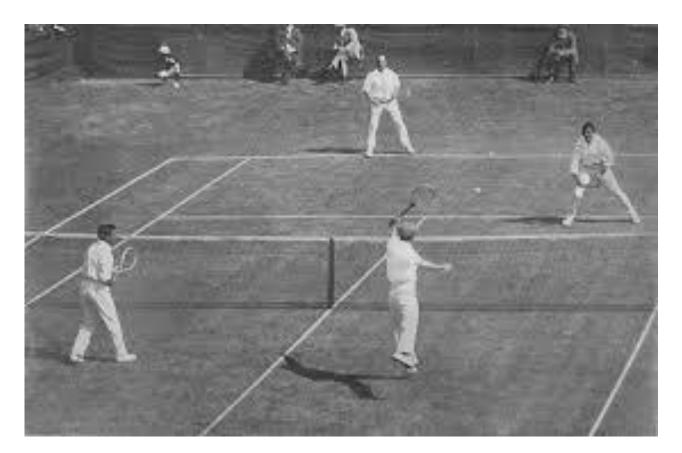
- Lateral Epicondylitis (Tennis Elbow)
- Medial Epicondylitis (Golfer's Elbow)
- Distal Biceps Tear
- Elbow Fracture
- Elbow Dislocation
- Elbow Arthritis





Lateral Epicondylitis

1873: "lawn tennis arm"





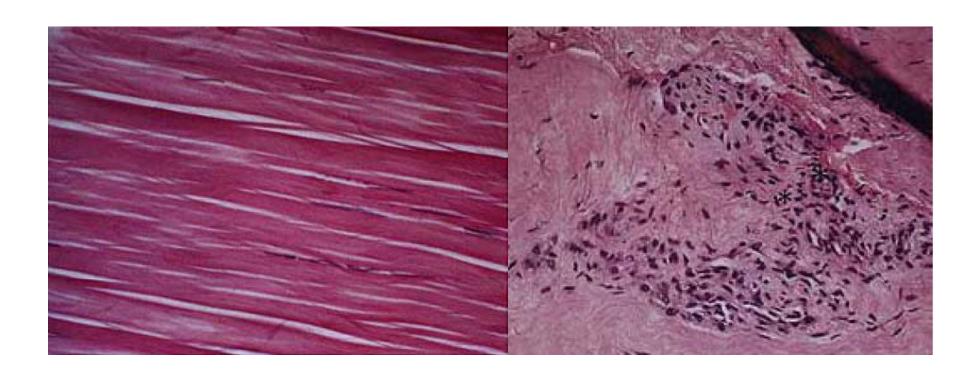
Physical Examination

- Tenderness to Palpation just distal to lateral epicondyle
- Pain with resisted wrist extension





Histologic Changes in Tendon



Normal Tendon

Angiofibroblastic Hyperplasia

JBJS 1999



Non-surgical treatment

- Rest
- NSAIDs
- Counter-Force Strap
- Cock-up wrist splint
- Physical Therapy







Cortisone

- Early improvement (5 days-6 weeks)
- Late same or worse (12 wks-12 months)
- Skin atrophy, depigmentation





Positive Effect of an Autologous Platelet Concentrate in Lateral Epicondylitis in a Double-Blind Randomized Controlled Trial

Platelet-Rich Plasma Versus Corticosteroid Injection With a 1-Year Follow-up

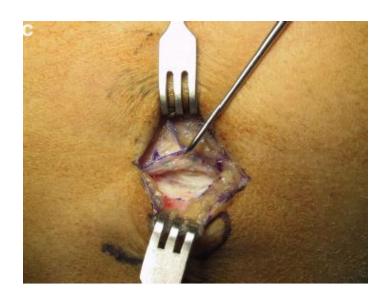
Joost C. Peerbooms,* MD, Jordi Sluimer,[†] MD, Daniël J. Bruijn,* PhD, and Taco Gosens,^{†‡} PhD From the *Department of Orthopaedic Surgery, HAGA Hospital, The Hague, Netherlands, and [†]Department of Orthopaedic Surgery, St Elisabeth Hospital, Tilburg, Netherlands

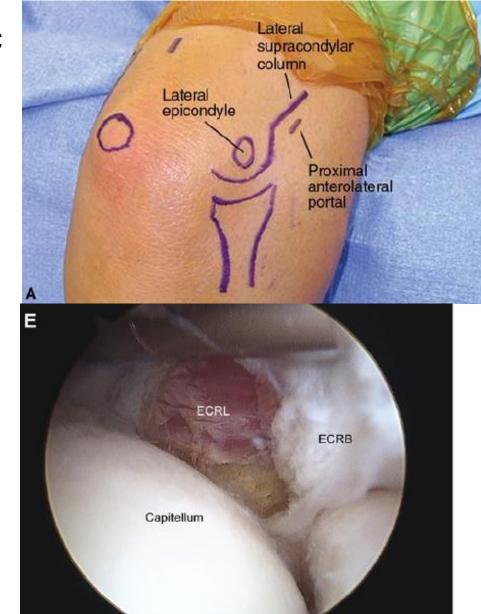
- PRP (n = 51) or corticosteroid (n = 49)
- VAS scores: 49% improved in CSI vs. 73% in PRP group at 1 year (p < 0.001)
- CSI better initially, then declined
- PRP group progressively improved



Surgery

Open or Arthroscopic







Audience Question

What treatment is most frequently successful at resolving lateral epicondylitis?

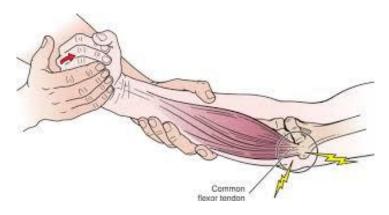
- 1. Cortisone injection
- 2. PRP Injection
- 3. Physical Therapy
- 4. Arthroscopic surgery
- 5. Open surgery



Medial Epicondylitis

- Less common
- >90% respond to non-operative treatment





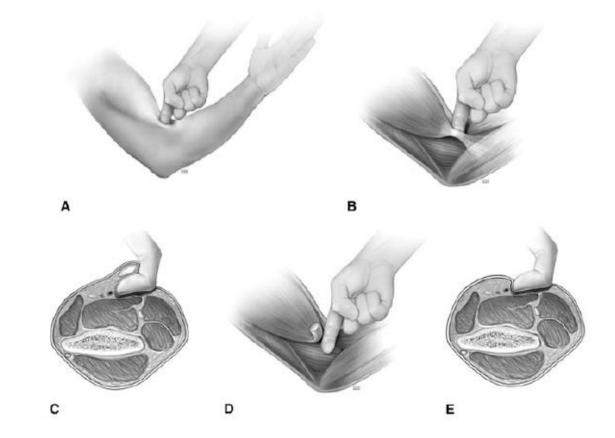


- Lifting heavy object
- Eccentric contraction
- "Pop" and subsequent bruising
- Arm "looks funny" → reverse popeye deformity
- Weakness (supination >flexion)



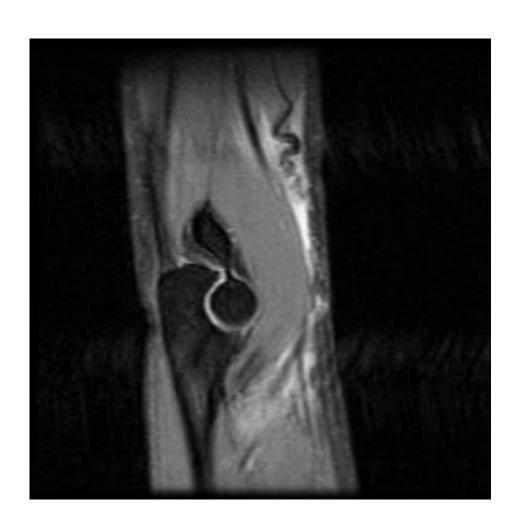


Hook Test (O'Driscoll)





MRI



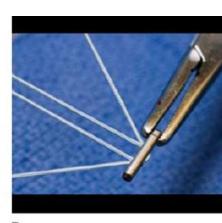


- Repair
- Tension Slide (Sethi)



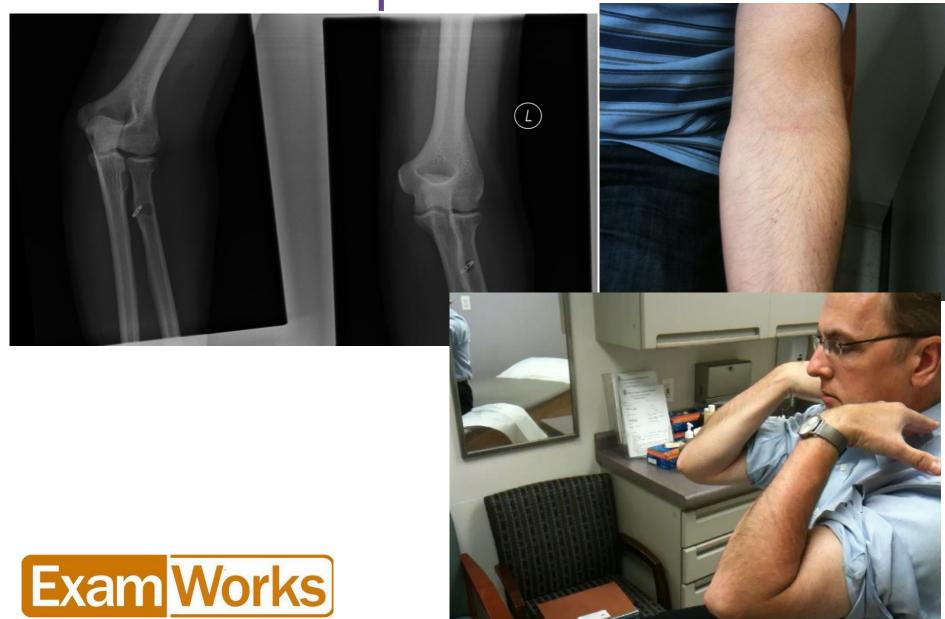












Audience Question

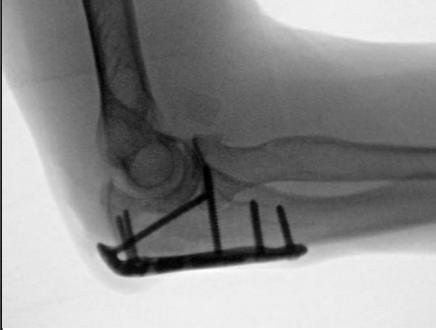
What is the most common mechanism causing distal biceps rupture?

- 1. Muscle fatigue
- 2. Bench press exercise
- 3. Previous surgery
- 4. Eccentric contraction
- Fall on outstretched hand



Elbow Fracture







Elbow Fracture

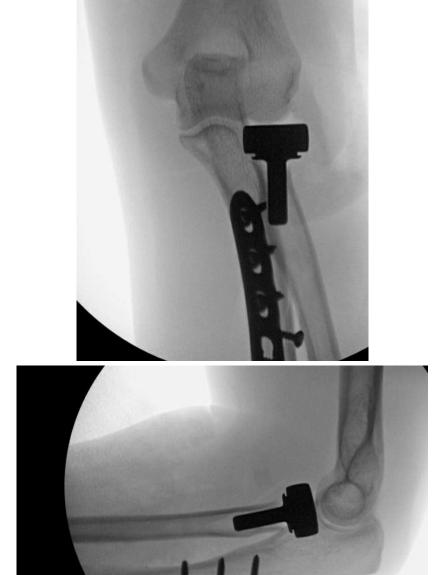






Elbow Fracture







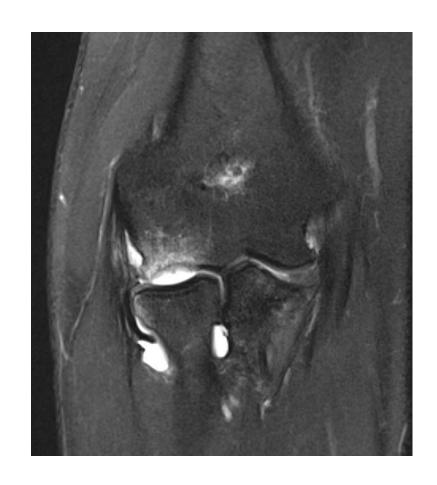
Elbow Dislocation







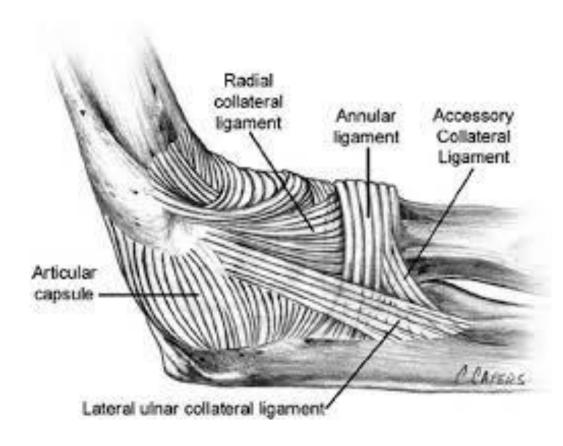
Elbow Dislocation







Elbow Dislocation



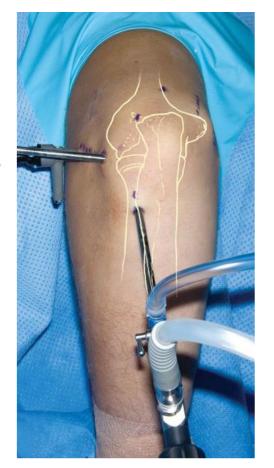




Elbow Arthritis

- Not as common as other joints
- NSAIDs, ice, heat
- Cortisone
- Arthroscopic debridement









Elbow Arthritis

- Total Elbow Arthroplasty
 - Lifetime 5 lb lifting restriction







Audience Question

Who is the best candidate for total elbow arthroplasty?

- 1. 70 y/o retired female with rheumatoid arthritis
- 2. 30 y/o male soft ball coach
- 3. 50 y/o male mechanic
- 4. 60 y/o with displaced olecranon fracture
- 5. 80 y/o with severe congestive heart failure and persistent elbow clicking



■ What is MMI?

- Known <u>natural history</u>:
 - Elbow strain (< 3 months)
 - Elbow fracture (4-6 months)
 - Elbow tendon repair (3-4 months)
 - Shoulder strain (<3 months)
 - Rotator cuff tear non-op (3 months)
 - Rotator cuff tear surgery (6 months)
 - Revision rotator cuff surgery (12 months)
 - Labrum repair surgery (4 months)
 - Shoulder replacement surgery (1 year)



Ok, let's do an elbow exam!





