ACROMIOCLAVICULAR JOINT INJURIES

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ACROMIOCLAVICULAR JOINT INJURIES

- 1. Surgical Anatomy
- 2. Function of ACJ

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- 3. Classification of ACJ-Injuries
- 4. Decision making for treatment
- 5. Common surgical Techniques
- 6. Complications (not discussed)

Surgical Anatomy ACJ-Injuries • 12%-15% of all Shoulder injuries • First Reports: • Hippocrates (460-377B.C.) Galen (129-199A.D.) -> Treated himself after Articular surfaces are Shape and inclination of having ACI-dislocation, but he abandoned the covered with hyaline the articular surfaces treatment. cartilage up to the age of show variations 20 years variability in congruity Fibrocartilaginous disc • Overriding in 50% DR. N.PAPALOUCAS DR. N.PAPALOUCAS







Range of Motion in ACJ

- **Inman and colleagues** in 1944 suggested that the total range of motion in the ACJ is 20°
- Codman and Rockwood theorized the ROM is only 5°
- The main motion takes place in scapular level.
- The ROM of ACJ is still in debate
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• <u>Historically:</u>

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- In 1941 Bosworth described his technique of placing a screw between the clavicle and the coracoid.
- In 1972 Weaver and Dunn described their procedure consisting of excision of the distal end of the clavicle and stabilizing the clavicle by inserting the acromioclavicular Lig in the medullary cavity of the clavicle

Weaver and Dunn 1972 JBJS 54 1187-1194





Essential key elements to successful surgical management

- 1. Anatomic and accurate reduction of ACJ
- 2. Direct or indirect repair (by closing the CC-gap) in acute stage, and reconstruction of CC-Lig (by using graft) in chronic stage
- 3. Protection of the CC-Lig repair or reconstruction
- 4. Repair of the Deltoid and Trapezius fascia in high Type of injuries
- 5. Arthroscopy of glenohumeral joint may be indicated even in open procedures
- Distal clavicle resection only in patient with chronic dislocation and clinical evidence of osteoarthritis

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