



#### ETIOLOGY OF DEGENERATIVE SHOULDER ARTHRITIS

1. PRIMARY OA:

wear and tear

Recognized by narrowing of joint space subchondral sclerosis, cysts and osteophyte

Characteristic: Posterior glenoid wear



#### ETIOLOGY OF DEGENERATIVE SHOULDER ARTHRITIS

#### Most common form is Rheumatoid Can be associated with osteophytes & osteopenia Characteristic : central glenoid wear

accondary, in young pt after trauma, fracture or instability Recurrent dislocation → Dislocation Arthropathy

Walsh G. et al(JSES 2002): Static posterior subluxation may be a reason of early arthritis in young patients

# ETIOLOGY OF DEGENERATIVE SHOULDER ARTHRITIS

#### . <u>CUFF-TEAR ARTHROPATHY:</u>

patients with massive irreparable RC-tear

Characteristic: proximal migration





## ETIOLOGY OF DEGENERATIVE SHOULDER ARTHRITIS

7. <u>INFECTIVE ARTHRITIS:</u> rare, immuncompromised patients

8. <u>NEUROPATHIC ARTRITIS</u> rare, Charcot Arthropath















# SURGICAL TREATMENT

Sperling et al (JSES 2004)

" great care must be exercised, and alternative methods of treatment considered, before shoulder replacement arthroplasty is offered to patients age 50 or younger due to the unsatisfactory results in this age group"



# **Arthroscopic Debridement**

- No randomized studies to favor this procedure,
- Clinical studies: " may be successful in some patients (young / medically fragile)"
- Not a defined treatment time buying procedure

#### **Arthroscopic Debridement**

- Procedure
- 1. Synovector
- 2. Removal of loose bodies
- 3. Debridement of osteochondral lesions, unstable flap tears
- 4. Removal of degenerated and fray labrum
  - 5. Removal of osteophytes ( head, glenoid)
- 6. Microfracture / drilling
- 7. Capsular release ?



### **Arthroscopic Debridement**

- 7. Subacromial Bursectomy
- Bony Acromioplasty
- Release of AC- Ligament?
- Very critical part of the whole procedure

Any additional pathology must be addressed

#### ARTHROSCOPIC DEBRIDEMENT

Click on the link to watch video:

http://www.youtube.com/watch?v=OB609QGtr8E&fe ature=youtu.be







### INTERPOSITIONAL ARTHROPLASTY

Biologic glenoid resurfacing Development in 1988, since then further developed Glenoid resurfacing with autografts or allografts

Materials: anterior joint capsule, fascia lata Achilles tendon , lateral meniscus, human dermal



### INTERPOSITIONAL ARTHROPLASTY



#### INTERPOSITIONAL ARTHROPLASTY

- Short-term outcomes:
- Successful elimination of pain and Restoration of function
- Preservation of joint space is questionable, contradicting reports
- Durability of the graft is unknown



# TOTAL SHOULDER RESURFACING



# Copeland Mark III implant

- Bone preserving procedure Anatomic procedure

- Comparable results to conventional stemmed prosthesis

