## III. 회전근 개 질환

# Arthroscopic Rotator Cuff Repair



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#### Aim of This Presentation

- To understand various type of rotator cuff tears
- To present arthroscopic management of rotator cuff disorders

#### Rotator Cuff Disorder

- Tendinosis
- Partial-thickness tear
  - · Articular surface
  - · Bursal Surface
  - Intratendinous
- Full-thickness tear
  - Anterosupreior
  - Posterosuperior



#### **PTRCT**

- < 50%: Arthroscopic debridement</p>
- > 50%: Repair





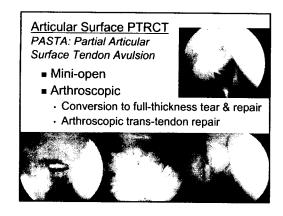
# SMC Results Arthroscopic Conversion to Full-thickness Tear & Repair

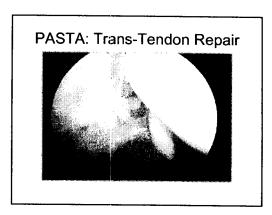
- 109 ASPTRCT (1995 2000)
  - 54 low-grade: debridement ± acromioplasty
  - · 55 high-grade: AS conversion & suture anchor repair
- Prospective F/U for 49 months (24 129 months)
- Group 1: 49 throwing athletes (Age: 27 years)
- Group 2: 32 non-throwing sports (Age: 31 years)
- Group 3: 28 no sports patients (Age: 56 years)

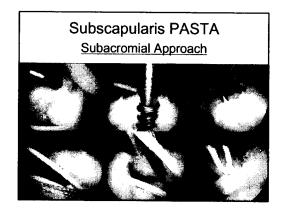
#### **ASES Scores**

#### ■ Group 1 throwing athletes

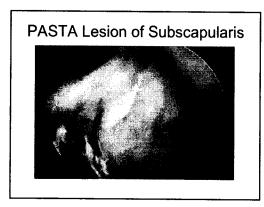
	Satisfact ory	Unsatisfa ctory	
Grade 1 (12)	10 (83%)	2 (17%)	
Grade 2 (19)	8 (42%)	11 (58%)	10 reop. (repair) → 7 satisfactory
Grade 3 (18)	16 (89%)	2 (11%)	
Overall (49)	34 (69%)	15 (31%)	36 (73%) return >90% level

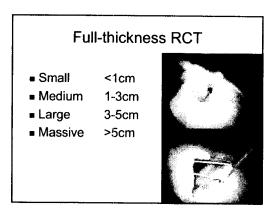








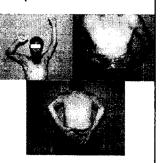




#### 작장: 이병일·전제명/ 연자: 김승호

#### **Anterosuperior RCT**

- Supraspinatus
- Subscapularis
- Belly-press sign (Napoleon sign)
- Lift-off test



## Posterosuperior RCT

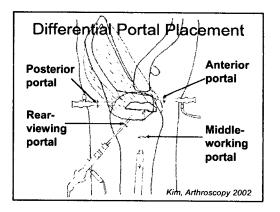
- Infraspinatus
- Supraspinatus
- External rotation lag sign





# Success of Arthroscopic Repair

- Complete visualization
- Easy access to anterior and posterior margins of tear



# Advantage Differential Portal Placement

#### Rear-Viewing Portal

Better en-face view to anteriorly located tear

#### Middle-Working Portal

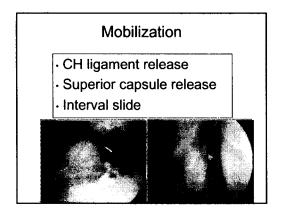
Better angulations for both margins of tear

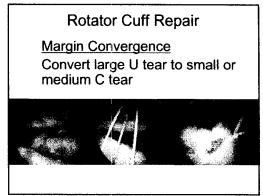


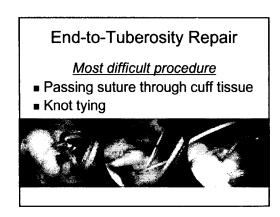
Kim, Arthroscopy 2002

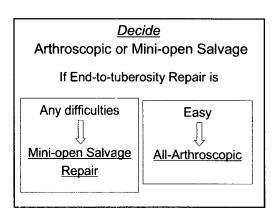
#### Arthroscopic Repair Step

- Acromiplasty
- Bursectomy
- Tear pattern evaluation
- Mobilization, if needed
- Margin convergence, prn
- End-to-tuberosity repair









Arthroscopic Versus Mini-Open Salvage Repair

Medium and large tears

Surgical outcomes depended on the size of the tear, rather than the method of repair

Kim, Arthroscopy 2003

