

Robert C. Grumet, MD Linda Zaragoza, MMS, PA-C, ATC

# Post-Operative Rehabilitation: Open Osteoallograft Transfer

### Phase 1 Physical Therapy (0-6 weeks)

- Sling x 6 weeks
- Pendulums
- Gradually improve ROM
  - Flexion to 145 degrees
  - ER at neutral and 45 degrees abduction: 30 degrees
  - IR at 45 degrees abduction: 55-60 degrees
  - May initiate stretching exercises
  - Initiate exercise tubing ER/IR (arm at side)
  - Scapular strengthening
- Soft tissue mobilization, isometric exercises, core strengthening

#### Phase 2 Physical Therapy (6-12 weeks)

- Progress to full active ROM as tolerated
  - Initiate ER/IR at 90 degrees abduction at week 8
  - ER at 90 degrees abduction: 70-80 degrees at week 8
  - ER to 90 degrees at weeks 9-10
  - IR at 90 degrees abduction: 70-75 degrees
- Continue to progress isotonic strengthening program
- Begin PNF strengthening

#### Phase 3 Physical Therapy (12-18 weeks)

- Initiate closed-chain and core strengthening
- Continue proprioceptive training
- Focus on functional exercises in all planes, advance only when fully controlled
- Progress ER to Throwers Motion
  - ER at 90 degrees abduction: 110-115 in throwers
  - Improve muscular strength, power and endurance
- Gradually initiate functional activities

#### Phase 4 Physical Therapy (18-24 weeks)

- Restricted sport activities (light swimming, half golf swings)
- Initiate interval sport program (throwing, etc)



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Phase 5 Physical Therapy (24+ weeks)

- Advance closed-chain and core strengthening
- Sport-specific drills as tolerated