



# Indiana University Health

IU Health Physicians Orthopedics & Sports Medicine

# ARTHROSCOPIC ELBOW SURGERY: OCD/MICROFRACTURE

#### PHYSICAL THERAPY PROTOCOL

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Patient Name:	<b>Date of Surgery:</b>
Evaluate and Treat	Provide patient with home program
Frequency:	x/week xweeks

• - Excessive &/or aggressive motion first 5 days

Precautions:

• - No excessive elbow loading through exercise for 4 months



- - No weight bearing exercises or bench presses for 4-5 months
- No throwing for 6 months (unless specified by Physician)
  - I. Maximum Protection Phase (Weeks 1 to 6)
    - Goals: Restore full wrist and elbow ROM, Decrease swelling & pain,
    - Promote healing of articular cartilage Retardation or muscle atrophy
    - Days 1 to 5
      - Begin gently moving elbow in bulky dressing Remove bulky dressing and replace with gauze pads & elastic bandages Immediate post-op hand & wrist ROM, gripping exercises
        - Putty/grip strengthening
           Wrist flexor stretching
           Wrist extensor stretching
           Elevate hand to reduce swelling
           Continue light elbow AAROM exercises in bulky dressing (3-4 x daily)
    - Post-op Day 5 through 7
      - PROM & AAROM elbow extension & flexion (motion to tolerance) Begin PRE exercises with 1 lb weight
        - Wrist curls
           Reverse wrist curls
           Neutral wrist curls
           Pronation/supination
           Active elbow flexion & extension (frequent motion- 5min every)
      - Post-op Week 2 to 4
        - Emphasize elbow ROM and restoring full ROM Begin light overpressure program into extension Perform AAROM & PROM frequently during the day to promote articular cartilage healing (5-10 min every hour)
        - Full PROM at end of week 4
           Begin shoulder program week 2 to 3
           Thrower's Ten Program week 4

           Running program may begin week 4
    - Post-op Weeks 5 to 6
      - Continue all exercises above
        Emphasis on restoration of full ROM
        If lacking full extension low load long duration (LLLD) stretching
        Continue AAROM program for articular cartilage healing
        Pool program light exercises in water (once incisions close)

#### II. Moderate Protection Phase (Weeks 7-12)

- Goals: Protect articular cartilage healing Promote articular cartilage healing Restore/maintain Full ROM Shoulder ROM & Strength
- Weeks 7 -12
  - Continue AAROM & PROM exercises for elbow
     Initiate light resistance for biceps & triceps
     Continue Thrower's Ten Program
     Stretching & ROM program for shoulder
     Continue ROM exercises for elbow to promote articular cartilage healing
     Perform elbow ROM exercises 10min every hour of the day
  - Core strengthening program
     Still maintain precautions regarding loading of the elbow



#### III. Minimal Protection Phase (Weeks 13 -20)

- Goals: Continue to promote articular cartilage healing Protect elbow against excessive loading Improve condition of entire UE & body
- Weeks 13 to 20
  - Continue AAROM & PROM exercises (10 min 10-12 x daily) Thrower's Ten Program ROM & Stretch Shoulder
    - Core Program
  - Running, agility drills etc
    Precautions against excessive joint loading (weight bearing exercises,
    Bench press, etc for 5 months)

### IV. Gradual Return to Activity Phase (Weeks 21 & beyond)

- Goals: Gradual return to activity/sport
   Prepare patient for safe & successful return to sports
- Weeks 21 -26
  - Continue Thrower's Ten Program
    Continue stretching & flexibility exercises of elbow & shoulder Initiate 2
    hand light plyometrics at week 21
  - 2 hand chest pass
    - 2 hand soccer throw
    - 2 hand side to side throws
  - Initiate 1 hand plyometric drills at week 23 to 24 1 hand throws
  - 1 hand wall dribbles
- Weeks 26 & >
  - 1. Initiate interval throwing program at week 26 (Physician will determine) Phase I Program
- 2. Able to perform light machine bench press
  - 3. Able to perform push ups at week 26-28 4. Initiate Interval hitting program
- Month 7-8
  - Initiate Interval throwing program (Phase II, off the mound)
- Month 9
  - Gradual return to full contact/throwing sporting competition without restriction

, , ,	have examined this patient and physical therapy is ouldwould not benefit from social services.
	Date:
Bryan M. Saltzman, MD	