

Steven C. Gross, MD

Orthopedic Surgeon Tel. 303-449-2730 Fax 303-449-5821

Rehabilitation Protocol: Humeral Shaft Fracture Repair

Phase 1 (Weeks 0-2)

- **Sling:** Sling as needed for support. Remove sling regularly to work on elbow range of motion.
- Range of Motion: Active/Passive elbow and shoulder range of motion
- Therapeutic Exercises:
 - o 1 lb. lifting restriction with operative arm
 - Codman Exercises/Pendulums
 - Elbow/Wrist/Hand Range of Motion and Grip Strengthening
 - o Isometric Scapular Stabilization
- Heat/Ice before and after PT sessions

Phase 2 (Weeks 2-8)

- **Sling:** Discontinue sling at 2 weeks post-op
- Range of Motion:
 - o Continue active/passive ROM for shoulder and elbow
 - o Target full range of motion by 6 weeks post-op.
- Therapeutic Exercises
 - Continue exercises from Phase 1
 - o Maintain 1 lb. lifting restriction until 6 weeks post-op
 - Stationary bicycle/trainer
 - o May jog once more comfortable (avoid uneven terrain)
 - o At 6 weeks, advance to 5 lb. lifting restriction
- Modalities per PT discretion

Phase 3 (Weeks 8-12)

- Range of Motion: Full motion at shoulder and elbow
- Therapeutic Exercises
 - o Advance resistance/strengthening as tolerated: isometrics → therabands → light weights
- Modalities per PT discretion
- Return to outdoor road cycling, running
 - o Avoid mountain biking, trail running, climbing, skiing/snowboarding activities

Phase 4 (After Week 12)

- Range of Motion: Full without discomfort
- Therapeutic Exercises:
 - o Continue to advance strengthening without restriction
- Modalities per PT discretion
- Once cleared by Dr. Gross (usually no earlier than Weeks 12-16), may return to team sports, mountain biking, climbing, skiing/snowboarding, etc.