

Quadriceps/Patella Tendon Repair Patella Fracture ORIF

Ryan W. Hess, MD
Dr. Hess Care Coordinator Phone: 763-302-2223
Fax: 763-302-2401

• Phase I – Immediate Post Surgical Phase (Week 0-2)

- Will typically delay therapy 2 weeks to allow early healing
- Goals
 - Maintain integrity of repair
 - Decrease pain and inflammation
 - Prevent muscular inhibition
- Cryotherapy for pain/inflammation
 - Ice 15-20 minutes every hour
- o Brace
 - Hinged knee brace locked in extension for ambulation
 - May unlock 0-30 degrees when not ambulating
- Weight Bearing
 - As tolerated in knee brace with crutches

• Phase II – Protection Phase (Week 2-4)

- Goals
 - Allow healing of soft tissue
 - Do not overstress healing tissue
 - Gradually increase ROM
 - Progression based on swelling/inflammation
 - Decrease pain and inflammation
 - Restore patellar mobility
 - Restore muscle activation

Week 2-4

- Continue us of ice as needed
- Progress ROM to 0-60 degrees in therapy
- Continue brace locked in extension for ambulation for first 6 weeks
- May open brace to 0-60 degrees when not ambulating
- Weight bearing- discontinue crutches when appropriate

Week 4-6

- May use heat prior to exercises
- Progress ROM to 0-90 in therapy
- Muscle retraining
- Active knee extension 0-60, pain free arc
- Stationary bicycle if pain permits (in brace)
- Proprioception training
- Anti-gravity SLR

Phase III – Intermediate Phase (Week 6-12)

- Goals
 - Control forces during ambulation and ADL's
 - Eliminate swelling
 - Functional exercise movements
 - Typically discontinue brace around week 8 (Dr. Hess discretion)
 - May unlock for ambulation when good quad control returns
- ROM Goals
 - Week 7: 0-100
 - Week 8: 0-110
 - Week 10: 0-120+
- Gradually introduce quadriceps strengthening
- Continue above exercises
- May begin pool program

Phase IV –Strengthening Phase (Week 12-18)

- Goals
 - Maintain full ROM
 - Improve limb strength and endurance
 - Restore limb confidence and function
- Criteria to progress to Phase IV
 - Adequate, non-painful ROM
 - Absence of swelling/inflammation
 - Knee extension strength 70% of contralateral knee
- Continue above exercises
- o Progress to functional drills as tolerated

Phase V –Return to Activity Phase (Week 18-24)

- Goals
 - Gradual return to strenuous work activities
 - Gradual return to recreational sports activities
- Criteria to progress to Phave V
 - Appropriate strength level/Clinical exam

- Strength and proprioception 80% of contralateral leg
- o Continue strengthening exercises
- o Emphasis on eccentrics and functional exercises
- May initiate plyometrics at month 5 (if appropriate)
- o May initiate light running at month 5 (if appropriate)