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Quadriceps or Patellar Tendon Repair Rehab Protocol Prescription

Patient Name:	Data
ralielil ivallie.	Date:

Diagnosis: quadriceps patellar tendon rupture Frequency: 2-3 visits/week Duration: 6 months

Weeks 1-6

- HEP including SLR with brace in full extension and passive ROM to goal 0-70 degrees by 6 weeks.
- WBAT with brace locked in extension.

Week 6

- Supervised PT 3 times a week (may need to adjust based on insurance)
- Gentle patellar mobilization exercises
- Perform scar massage aggressively
- Emphasis full passive extension
- AAROM exercises (4-5x/day) no limits on ROM
- ROM goal: 0-90
- Flexion exercises PROM, AAROM, and AROM with brace off
- Stationary bike for range of motion (short crank or high seat, no resistance)
- Hamstring and calf stretching
- Mini-squats (0-45) and heel raises
- Hip strengthening specifically external rotators
- Isotonic leg press (0 60 degrees)
- Unlock brace (0-40) for ambulation when good quad control
- Progressive SLR program with weights for quad strength with brace off if no extensor lag (otherwise keep brace on and locked)
- Theraband standing terminal knee extension
- Proprioceptive training bilateral stance

- Hamstring PREs
- Double leg balance on tilt boards
- 4 inch step ups
- Seated leg extension (0 to 40degrees) against gravity with no weight
- Add water exercises if desired (and all incisions are closed and sutures out)

Week 7

- Continue all exercises
- Open brace to 0-70 for ambulation if quad control adequate
- Continue ROM stretching and overpressure into extension
- Initiate retro treadmill with 3% incline (for quad control)
- Wall and/or ball squats
- 6 inch front step-ups
- 4 inch step downs
- SLR's in all planes with weight

Goal: 0 to 115 degrees

Week 8

- Continue above exercises
- Self ROM 4-5x/day using other leg to provide ROM
- Regular stationary bike if Flexion > 115
- 8 inch step ups
- 4 inch step downs
- Single leg proprioceptive training
- Lateral step out with therabands
- Retro treadmill progressive inclines
- Sport cord (bungee) walking
- Increase resistance on stationary bike

Week 9

- Continue above exercises
- Stairmaster machine
- Brisk walking
- Progress balance and board throws
- 6 inch step downs

Week 10

- Bike outdoors, level surfaces only
- Start slide board
- Plyometric leg press
- 8 inch step downs

Week 11

- Should have close to normal ROM
- Begin resistance for open chain knee extension

- Jump down's (double stance landing)
- Progress to running program and light sport specific drills if:

Quad strength > 75% contralateral side

Active ROM 0 to > 125 degrees

Functional hop test >70% contralateral side

Swelling < 1cm at joint line

No pain

Demonstrates good control on jump down

Week 12-22

• If full ROM, quad strength > 80% contralateral side, functional hop test >85% contralateral side, satisfactory clinical exam:

Progress to home program for running. Start backward jogging, figure of 8, zigzags and lateral shuffles. Progress to hops, jumps, cuts and sports specific drills. Begin to wean from supervised therapy.

Criteria to return to sports

Full Active ROM

Quadriceps and hip external rotators strength >90% contralateral side

Satisfactory clinical exam

Functional hop test > 90% contralateral side

Completion of running program

Concerns or questions:

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Physician Signature: