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Patient Name:

Date:

Date of Surgery:

Patellofemoral Reconstruction – Proximal and/or Distal Realignment

Post Operative weeks 1-6:

- SLR with brace in full extension and passive progressive ROM to a goal of 0 - 90 deg by 6 weeks. May start PROM at 2 weeks after the procedure.
- No Active ROM during this time period
- WBAT with brace locked in extension for the first 4 weeks and then transition to open the brace from 0 to 90 degrees from week 4 to 6.
- Discontinue the knee brace after 6 weeks.
- CPM Machine: 0-90 degrees at home, 2x / day for 2-3 hrs per session.

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: 0-115
- 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 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 and Double leg balance on tilt boards
- 4 inch step ups
- Seated leg extension (0 to 90degrees) against gravity with no weight
- Add water exercises if desired (and all incisions are closed and sutures out)

Week 7

- Continue all exercises
- D/C brace and advance to shields brace if quad control adequate
- Continue ROM stretching and overpressure into extension
- Initiate retro treadmill with 3% incline (for quad control)
- Regular stationary bike if Flexion > 115
- Wall and/or ball squats
- 6 inch front step-ups
- 4 inch step downs
- SLR's – in all planes with weight
Goal: 0 to 125 degrees

Week 8

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

Week 9

- Continue above exercises
- Stair master 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 normal ROM (equal to opposite knee)
- Begin resistance for open chain knee extension
- 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 and to d/c brace**
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

This is strictly an outline of most of the major exercises that we would like to incorporate into the patellofemoral rehabilitation. Not all exercises need to be done. Two main goals are that appropriate progress is made on a weekly basis, and that communication exists between patient, therapist and doctor.

* Please send progress notes *

Signature: _____

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