REHABILITATION FOLLOWING PATELLOFEMORAL ARTHROPLASTY

Phase I: Immediate Postoperative Phase (Day 1-10)

Goals:

- 1. Active quadriceps muscle contraction
- 2. Safe (isometric control), independent ambulation

- 3. Passive knee extension to 0 degrees
- 4. Knee flexion to 90 degrees or greater
- 5. Control of edema, inflammation and bleeding

Day 1 to 2:

Weight Bearing - Walker/two crutches WBAT

Brace- 0-20 degrees when walking

CPM - 0 to 70 degrees as tolerated

Cryotherapy – Commercial unit if available – continuous first 10

Days (appx) or as needed for comfort.

Exercises:

Ankle pumps with leg elevation

Passive knee extension

SLR

Quad sets

Knee extension -90 - 30 degrees

Knee flexion stretches (gentle)

Day 4 to 14:

Continue WBAT

CPM - 0 to 90 degrees, increasing as tolerated

-Discontinue CPM once maximum flexion attained for 2 days

Exercises:

Ankle pumps with leg extension

Passive knee extension

Active assistive ROM knee flexion

Quad sets

SLR

Hip abd/adduction

Knee extension -90 - 0 degrees

Continue cryotherapy

Gait training – Continue safe ambulation WBAT Brace – 0-20 when walking. Once quad contraction obtained may increasebrace flexion to 90 degrees.

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Phase II: Motion Phase (Week 2-6)

Goals:

- 1. Improve ROM
- 2. Enhance muscle strength/endurance
- 3. Increase dynamic joint stability
- 4. Diminish edema/inflammation
- 5. Establish return to functional activity

Criteria to enter Phase II:

- 1. Quad control Good SLR
- 2. Active ROM 0 90 degrees
- 3. Minimal pain/edema
- 4. Independent ambulation/transfers

Week 2 - 4:

Weight Bearing as Tolerated

Begin weaning from crutches, goal 1 crutch by end of 4th week Brace-Goal to discontinue by end of Week 3

Exercises:

Quad sets

Knee extension 90 - 0 degrees

SLR

Hip abd/adduction

Hamstring curls

Mini squats

Stretches – lower extremity

Bike for ROM

Continue passive knee extension stretches

Continue cryotherapy

Patellar/Scar mobilization

VMO recruitment – EMS during isometrics/SLR

Week 4 - 6:

Exercises:

Continue all exercises listed previously
Initiate front/lateral step ups (minimal height)
Front lunges – partial
Continue compression, ice, elevation for edema control

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Phase III: Intermediate Phase \cdot (Week 7 – 12)

Goals:

- 1. Progress ROM 0 120 degrees or greater
- 2. Enhance strength and endurance
- 3. Eccentric/Concentric control of lower extremity
- 4. Cardiovascular fitness
- 5. Functional activity return

Criteria to enter Phase III:

- 1. ROM 0 120 degrees
- 2. Quad control
- 3. Independent ambulation
- 4. Minimal pain/inflammation

Week 7 – 10:

Exercises:

Continue all exercises listed in Phase II
Initiate progressive walking program
Initiate pool program – if available
Return to functional activity
Lunges, ½ squats, step ups (start with 2 inch height)
Emphasize eccentric/concentric knee control

Phase IV: Advanced Activity Phase (Week 14-20)

Goals:

- 1. Return to advanced level of function
- 2. Maintain/Improve strength/endurance
- 3. Return to normal lifestyle

Criteria to enter Phase IV:

- 1. Full non-painful ROM 0 120 degrees
- 2. Strength of 4+/5 or 85% contralateral limb
- 3. Minimal to no pain and swelling
- 4. Satisfactory clinical examination

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Exercises:

Quad sets
SLR
Hip abd/adduction
½ Squats
Lateral step ups
Knee extension 90- 0 degrees
Bike for ROM and endurance
Stretching
(knee extension to 0 degrees
flexion to 120 degrees).
Initiate return to golf, tennis, swimming, bike, and walking program