

Medium to Large Trochlear or Patellar Chondral Lesion Rehabilitation

No quad activities x 6 weeks*

Phase 1: Maximum Protection Phase (Weeks 1-4)

Goals: Control inflammation/effusion

Allow early healing Full passive knee extension Gradually increase knee flexion Independent quad. Control

Stage 1: Week I

- Ice, compression, elevation
- Brace locked at 0 degrees for ambulation and sleeping only
 - o Brace may be unlocked during sitting etc.
- PROM (Passive 0-45)
- Strengthening exercise:
 - o Hamstring digs
 - SLR Extension
 - Hip Abd/Adduction
- Weight Bearing in Locked Brace x 6 weeks

Stage 2: Weeks 2-4

- Continue use of ice and compression
- Brace locked for ambulation
- ROM Guidelines
 - Gradually increase PROM
 - Week 2: 0-90 degrees
 - o Week 3-6: 0-100 degrees
- Strengthening Exercises:
 - o SLR (all 4 planes)
 - Knee Flexion only
 - o Heel Slides to 90
 - Begin Pool Program

Phase 2: Moderate Protection Phase (6-8 weeks)

Goals: Full PROM

No Swelling/inflammation Re-establish muscle control Proper gait pattern

- Begin Gait Training
- Continue use of ice and compression



- Continue PROM and progress to 0-135 Degrees
- Progress strengthening exercises Phase I
 - o Heel slides to full ROM
 - Long sit hamstring stretch
 - o Knee extension 90-0 Degrees
 - o Standing hamstring curls
- Begin Level Two agility
 - o Cup walking
 - o Planks
 - o Bridging
 - o Steamboats 4 way (involved leg down)
 - o Ball roll: for, side and back (involved leg down)
 - o Heel raises
- Light strengthening: Short range leg press, 4-Way hip, leg extension 90-45, Dead lifts
- Bicycle (as ROM permits)
- Pool Program

Phase 3: Controlled Activity Phase (9-16)

Goals: Improve strength and endurance

Maintain Full ROM

Gradually increase applied stress

Week 9 -11

- Continue all strengthening exercises listed above
- Initiate Dynamic warm-up (no lunge)
- Initiate Form Stepping (progress from walk pace to fast step pace and no lunge)
- Initiate light resistive hamstring curls
- Toe calf raises
- Progress balance training
- Progress to Phase II strengthening program

Week 12 -week 15

- Continue Strengthening and stretching program
- Continue dynamic warm-up (now can include lunges)
- Form running: progress from fast pace walk to trot to jog pace (now include lunges)
- Initiate treadmill for endurance (3.5mph fast walk then progress to light jog at 14 weeks)
- Begin step ups and step downs
- Initiate pool running

^{*}Avoid twisting, deep squatting, stooping, no lunges!!! pivoting, running and deep squatting



Phase 4: Return to Activity Phase (4-6 month)

Goals: Improve strength and endurance Prepare for unrestricted activities

Criteria to Progress to Phase 4

- Full non-painful ROM
- No pain or tenderness
- Satisfactory clinical exam

Exercises

- Continue and progress all strengthening exercises and stretching drills
- Initiate straight line running at 5 months
- Initiate controlled pivoting and cutting: 6 months
- Deep squatting permitted at 6 months
- Initiate controlled agility training: 6 months
- Initiate jumping program at 8 months: Ankle jumps, two-legged hop, two –legged jumps, single leg, etc...
- Gradually return to sport drills at : 9 months
- Non contact practice 8 months
- Full competition non contact sports 9 months
- Full competition full contact 10 to 12 months

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RESULTS PHYSICAL THERAPY OF MURIETA