

PATELLAR PROTECTION PROGRAM

This five-phased program approach can be utilized for both conservative and surgical patellofemoral clients. This systematic approach allows specific goals and criteria to be met; once goals and criteria are attained, the rehabilitation can progress safely. Client compliance is critical.

Ultimate Goal of Program

- 1. Improve Functional Status
- 2. Normalize biomechanical Forces
- 3. Improve Strength/Power/Endurance
- 4. Decrease Pain/Inflammatory Status

Acute Phase – Maximal Protection

GOALS: Relieve Pain and Swelling Decrease inflammation Retard muscle atrophy Maintain/increase flexibility

Weightbearing as tolerated, crutches may be indicated (normal gait)

Ice, compression, elevation

Anti-inflammatory medication (Aspirin or nonsteroidal)

Strengthening exercises (isometric)

- quadricep setting
- multiangle isometrics (non-painful) 90°, 75°, 60°, 45°, 30°
- straight leg raises (four planes of motion) hip adduction, hip flexion stressed
 - hip abduction not done with lateral compression syndrome

Electrical stimulation (EMS, TNS, HVGS, Biofeedback) to quadriceps

Balance of soft tissue

- LE flexibility stretches (especially hamstrings, gastroc)

Intermittent passive motion

Brace when indicated (patellar stabilizing brace)





Patient education regarding activities, pathomechanics

Avoidance program

- squatting, kneeling, excessive knee flexion, stairs, repetitive activities

Subacute Phase – Minimal Protection

GOALS: Restore soft tissue balance Progress strengthening program Enhance proprioception

Continue previous exercises

Progress strengthening program

- Leg press *
- Hip abduction/adduction
- Hip ER/IR
- Front lunge onto box
- Mini-squat *
- Wall squat *
- * May add concomitant isometric abduction or adduction depending on pathology

Proprioceptive drills

- Weight shifts
- Mini squats on unstable surface
- Balance on unstable surface

Assess biomechanical faults/control forces to knee

- Hip strength & flexibility
- Core strength & stability
- Foot mechanics (may fabricate orthotics)
- May continue use of brace

Chronic Phase – Progressive Strengthening

Progress to phase three when: ROM and swelling WNL pain is minimal to none

GOAL: Achieve Maximal Strength & Endurance

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Continue SLR

Knee flexion isotonics with resistance is begun

Variable resistance isotonic weight training (blocking painful ROM)

- continue shortened range knee extension isotonics
- continue closed kinetic chain exercises

Emphasis on increased functional activities

Dynamic stability drills

- Sport cord lunges
- Core drills
- Lunge/step up on unstable surface
- Single leg balance on unstable surface

Ice therapy post exercise

Avoidance Program

- squatting, painful ADL's

Maintenance Program

Continue Flexibility Daily (part of warm-up and cool down)

Continue PRE Program 3 times a week

Endurance Training is continued

Continue to be active (walking, swimming, pool running, possible biking)

GOAL: Continue to strengthen without deterious affects on patellofemoral joint

KEW/MMR 3/04

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