

Non-Operative Rehabilitation Program for PCL-Deficient Knee

Name: _____

Date: _____

Diagnosis: _____

Date of Surgery: _____



PHASE 1 -PROTECTION PHASE (Day 1- Week 4)

- Day 1-5
 - Brace ROM: 0-70°
 - Weight-bearing: two crutches as tolerated
 - Muscle Stimulation: muscle stimulation to quads
 - Exercises
 - Quad sets
 - Straight leg raises (all 4 planes)
 - Knee extension (60° to 0°)
 - Multi-angle isometrics at 60°, 40°, 20° (for quads)
 - Mini squats (0-50°)
 - Leg press (45-90°)
- Day 5-7
 - Brace ROM: 0-90°
 - Weight-bearing: progress as tolerated
 - Exercises
 - Continue all strengthening exercises
 - Initiate wall squats
 - Initiate proprioception training
- Weeks 2-3
 - Brace ROM: 0-115°
 - Weight-bearing: one crutch then without at week 3
 - Exercises
 - Progress exercises (listed above), using weight progression
 - Bicycle for ROM stimulus (week 2-4)
 - Pool program
 - Leg press (30-90°)
 - Vertical squats (0-60°)
 - Lateral step-ups
 - Single leg squats



PHASE II -MODERATE PROTECTION PHASE (Week 3-6)

- Week 3
 - Brace: discontinue
 - ROM: to tolerance (0-125°)
 - Exercises
 - Continue all above exercises (progress weight)
 - Bicycle
 - Stairmaster
 - Rowin
 - Knee extension (90-0°)
 - Mini squats (45-60°) (0-60°)
 - Wall squats (0-75°)
 - Step-ups

- Hamstring curls (light resistance) (0-45°)
- Hip abduction/adduction
- Toe-calf raises
- Proprioception training (biodex stability system)

- **Week 4-6**

- Brace: fit for functional brace
- Exercises
 - Continue all above exercises
 - Pool running
 - Agility drills



PHASE III -MINIMAL PROTECTION PHASE

- **Exercises**

- Continue all strengthening exercises
- Initiate running program
- Gradual return to sport activities

- **Criteria to Return to Sport Activities**

- Isokinetic quadriceps torque to body weight ration
- Isokinetic test 85% > of contralateral side
- No change in laxity
- No pain/tenderness/swelling
- Satisfactory clinical exam

Comments:

Frequency: _____ **times per week**

Duration: _____ **weeks**

Signature: _____

Date: _____