# NON-OPERATIVE PCL DEFICIENT KNEE REHABILITATION PROGRAM



# I. <u>Protection Phase</u> - (Day 1 to Week 4)

## Day 1 to 5

Brace ROM - 0-60 degrees

Weight Bearing - Two crutches as tolerated

Muscle Stimulation - Muscle stimulation to quads

## **Exercises**

- \* Quad sets
- \* Straight leg raises (all 4 planes)
- \* Knee extension (60 degrees to 0 degrees)
- \* Multi-angle isometrics at 60, 40, 20 degrees (for quads)
- \* Mini squats (0-50 degrees)
- \* Leg Press (45-90 degrees)
- \* Avoid active knee flexion

## Day 5-7

Brace ROM - 0-90 degrees

Weight Bearing - Progress as tolerated

# **Exercises**

- \* Continue all strengthening exercises
- \* Initiate wall squats (0-50 degrees)
- \* Initiate proprioceptive training

## **Week 2-3**

Brace ROM - 0-115 degrees

Weight Bearing - Without crutches week 3

#### **Exercises**

- \* Progress exercises (listed above), using weight progression
- \* Bicycle for ROM stimulus (week 2-4)
- \* Pool program
- \* Leg press (30-90 degrees)
- \* Vertical squats (0-60 degrees)
- \* Lateral step ups
- \* Single leg squats

## II. <u>Moderate Protection Phase</u> - (Week 3-6)

## Week 3

Range of Motion - to tolerance (0-125 degrees)

Brace - Discontinue

## Exercises

- \* Continue all above exercises (progress weight)
- \* Bicycle
- \* Stairmaster
- \* Rowing
- \* Knee extension (90-0 degrees)
- \* Mini squats (0-60 degrees)
- \* Leg press (0-100 degrees)
- \* Wall squats (0-75 degrees)
- \* Step-ups
- \* Hamstring curls (light resistance 0-45 degrees)
- \* Hip abd/adduction
- \* Toe-Calf Raises
- \* Proprioceptive training

#### Week 4-6

Brace - Fit for functional brace

# **Exercises**

- \* Continue all exercises listed above
- \* Pool running
- \* Agility drills

# III. <u>Minimal Protection Phase</u> - (Week 7-12)

#### Exercises

- \* Continue all strengthening exercises
- \* Initiate Running Program
- \* Gradual return to sport activities

# **Criteria To Return To Sport Activities**

- \* Isokinetic quad torque to body weight ratio
- \* Isokinetic test 85% > of contralateral side
- \* No change in laxity
- \* No pain/tenderness or swelling
- \* Satisfactory clinical exam

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