

## **Division of Pediatric Orthopaedics**

**Flo Edobor-Osula MD, MPH**

90 Bergen Street, Suite 7300

Newark, NJ 07103

Tel: (973) 972-2076

Fax: (973) 972-1080

**PEDSORTHO@NJMS.RUTGERS.EDU**

### **OATS PROCEDURE OF THE KNEE POST-OPERATIVE PHYSICAL THERAPY PROGRAM**

#### **POST-OPERATIVE PHASE I: Weeks 0-6**

**PRIMARY GOALS:** Protect healing tissue, decrease pain and effusion, gradually improve knee flexion, restore passive knee extension, regain quad control

**BRACE:** locked at 0 degrees for WB activities, sleep in locked brace for 4 weeks

**WEIGHT-BEARING:** NWB (if graft site is MFC), WBAT (if graft site is patella or trochlea)

#### **ROM:**

Full passive knee extension immediately

Initiate CPM POD 1 for a total of 6 hours per day x2-3 weeks

Progress CPM ROM as tolerated 5-10 degrees per day, up to 6w

Knee flexion ROM goal: 90 degrees by 1-2w

Knee flexion ROM goal: 105 degrees by 3-4w, 120 degrees by 5-6w

Patellar mobilization

Stretch hamstrings and calf

**STRENGTHENING:** Ankle pump using rubber tubing, quad sets, multi-angle isometrics, active knee extension (no resistance), SLR, stationary bike when ROM allows, biofeedback and electrical muscle stimulation, prn; isometric leg presses by week 4, may begin use of pool for gait training and exercises by week 4.

#### **POST-OPERATIVE PHASE II: Weeks 6-12**

**PRIMARY GOALS:** Gradually increase ROM, improve quad strength/endurance, increase in functional activities

**BRACE:** D/C by week

**WEIGHTBEARING:** Progress WBAT, FWB by 8-9 weeks, D/C crutches by 9 weeks (if graft site is MFC)

**ROM:** Maintain full passive knee extension, progress to flexion to 125-135 degrees by week 8, continue stretching program as well as patellar mobilization

**STRENGTHENING:** Initiate weight shifts week 6, mini-squats 0-45 degrees by week 8, closed kinetic chain (leg press), toe calf raises by week 8, stationary bicycle (low resistance), treadmill walking by weeks 10-12, balance and proprioception drills, initiate front and lateral step-ups and wall squats by weeks 8-10, continue use of biofeedback and electrical stimulation prn, use of pool for gait training and exercise

**POST-OPERATIVE PHASE III: Weeks 12-26**

**ROM:** 0-125 to 135 degrees

Incorporate home exercise program for strengthening and maintenance 3-4 times per week. Progress resistance as tolerated, agility and balance drills, sports programs depending on patient. Gradual return to full unrestricted functional activities by 6 months and beyond.