

## **PROXIMAL HAMSTRING REPAIR REHAB PROTOCOL**

### **Evaluate and Treat**

- Provide patient with home exercise program. Teach patient how to transfer from supine to sitting positions and standing to sitting positions safely

### **Weeks 1-6 – Period of protection**

- ◆ Use axillary crutches for up to 6 weeks
  - Post-operative weeks 0-2: Touch-down weight bearing
  - Post-operative weeks 3-4: 25% - 50% weight bearing progression
  - Post-operative weeks 5-6: Weight bearing as tolerated with weaning from crutches
  - ◆ Recommended exercises: Quad sets, Ankle pumps, Abdominal isometrics
  - ◆ Passive knee range of motion (ROM) with no hip flexion during knee extension
  - Post-operative weeks 3-4: Begin hip abduction, hip extension, and balance exercises
  - Scar mobilizations
- (Goal – Full extension and 90 degrees of flexion by 2 weeks, 120 degrees of flexion by 6 weeks.)

### **Weeks 6-12 – Gait Training, Active Motion and Strengthening**

- ◆ ROM – Continue with daily Active Passive ROM exercises (Goal – increase ROM as tolerated)
- ◆ Non-impact balance and proprioceptive drills – beginning with double leg and gradually progressing to single leg
- ◆ Begin hamstring strengthening – start by avoidance of lengthened hamstring position (hip flexion combined with knee extension) by working hip extension and knee flexion moments separately; begin with isometric and concentric strengthening with hamstring sets, heel slides, double leg bridge, standing leg extensions, and physioball curls
- ◆ Stationary bike for ROM, strengthening, and cardio
- ◆ Gait Training

### **Weeks 12-18**

- ◆ Advance strengthening as tolerated, continue closed chain exercises. Increase resistance on equipment.
- ◆ Continue hamstring strengthening – progress toward strengthening in lengthened hamstring positions; begin to incorporate eccentric strengthening with single leg forward leans, single leg bridge lowering, prone foot catches, and assisted Nordic curls
- ◆ Hip and core strengthening
- ◆ Impact control exercises beginning 2 feet to 2 feet, progressing from 1 foot to the other and then 1 foot to same foot
- ◆ Movement control exercise beginning with low velocity, single plane activities and progressing to higher velocity, multi-plane activities
- ◆ Initiate jogging, running, sprinting drills

## **Weeks 18-24**

- ◆ Continue hamstring strengthening – progress toward higher velocity strengthening and reaction in lengthened positions, including eccentric strengthening with single leg forward leans with medicine ball, single leg dead lifts with dumbbells, single leg bridge curls on physioball, resisted running foot catches, and Nordic curls
- ◆ Running and sprinting mechanics and drills
- ◆ Hip and core strengthening
- ◆ Impact control exercises beginning 2 feet to 2 feet, progressing from 1 foot to other and then 1 foot to same foot
- ◆ Movement control exercise beginning with low velocity, single plane activities and progressing to higher velocity, multi-plane activities
- ◆ Sport/work specific balance and proprioceptive drills
- ◆ Stretching for patient specific muscle imbalances