Corey Kendall, MD 7950 Ortho Ln. Brownsburg, IN 46112 [P] 317.268.3634 • [F] 317.268.3695

ACL Reconstruction Using PTG Physical Therapy Protocol

Phase I: Immediate Post-operative (Days 1 to 7)

Day 1

Weight Bearing

• As tolerated with two crutches

Range of Motion

• Full passive extension (0 to 90 degrees)

Exercises

- Ankle pumps
- Heel prop/prone hang
- Straight leg raises
- Quad sets/glut sets
- Hamstring/calf stretch
- Continuous passive motion
 - Progress 5 to 10 degrees each day
- Cryotherapy with elevation for pain and inflammation every hour for 20 minutes

Days 2 to 7

Weight Bearing

As tolerated with two crutches

Exercises

- Continue exercises as listed above
- Patellar mobilizations
- Standing hamstring stretches
- Side lying hip abduction/adduction
- Prone hip extension
- Standing weight shifts
- Mini squats (0 to 30 degrees)
- Hamstring curls
- Neuromuscular electrical stimulation with guad sets (if poor guad contraction)
- Continue cryotherapy for pain management

Phase II: Maximum Protection (Weeks 2 to 3)

Goals

- Absolute control of external forces and to protect the graft
- Nourish articular cartilage
- Decreased fibrosis
- Stimulate collagen healing
- Decrease swelling
- Prevent quad atrophy

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Week 2

Weight Bearing

• As tolerated with one crutch (goal to discontinue crutches by week three)

Range of Motion

• Discontinue continuous passive motion once 110 degrees is reached

Exercises

- Continue exercises as listed above
- Bike (partial revolutions for range of motion)
- Multi-angle isometrics (90, 60 and 30 degrees)
- Mini squats (0 to 45 degrees)
- Calf stretching
- Prone hamstring curls
- Terminal knee extensions
- Continue cryotherapy for pain management

Week 3

Weight Bearing

• Discontinue use of crutch when able

Exercises

- Continue exercises as listed above
- Bike (progress to full revolutions if able)
- Pool walking program
- Proprioception training
- Leg press (0 to 60 degrees)

Phase III: Controlled Ambulation (Weeks 4 to 8)

Goals

- Range of motion from 0 to 115 degrees
- Normal gait
- Decrease swelling

Weeks 4 to 7

Exercises

- Continue exercises as listed above
- Step ups
- Initiate eccentric quad exercises (lateral step downs)
- Toe/calf raises
- Emphasize closed kinetic chain exercises

Phase IV: Moderate Protection (Weeks 9 to 16)

Goals

- Maximal strengthening for quads/lower extremity
- Protect patellofemoral joint

Week 8

Range of Motion

• 0 to 125 degrees

Exercises

- Continue exercises as listed above
- Elliptical/NordicTrack/StairMaster
- Wall squats
- Hamstring curls
- Lateral walks with resistance
- Monster walks with resistance
- Knee extension (90 to 45 degrees)
- Swimming

Week 10

Range of Motion

• Should be full, equal to opposite side

Exercises

- Continue exercises as listed above
- Pool running

Weeks 12 to 14

Exercises

- Continue exercises as listed above
- Knee extension 90 to 0 degrees
- May begin a jogging/running program per Dr. Kendall's approval
- Start with straight line jogging/running (walk the curves if on a track)
- Start with a ¼ mile and progress

Phase V: Light Activity (Months 4 to 5)

Criteria to Enter Phase V

- Full active range of motion
- Quad strength 70 percent of contralateral side
- Minimal to no effusion
- Satisfactory clinical exam

Goals

- Development of strength, power and endurance
- Begin gradual return to functional activities

Weeks 20 to 21

Exercises

- Continue with strengthening program
- Continue with running program
- Initiate plyometric program
- Initiate agility program
- Sport specific training and drills
- Backwards running

Phase VI: Return to Activity (Months 6 to 7)

Goals

- Achieve maximal strength and endurance
- Return to sport activities
- Continue with strengthening program for one year following surgery date