

# Dr. Allen ACL Reconstruction Rehabilitation Protocol Patellar BTB Autograft

## Phase I: Motion (Weeks 0-6)

Weeks 0-2

-Leave dressings in place until first PT visit (around POD #1-3)

-Ok to shower POD #3

-Don't soak wound, pat dry and cover with fresh bandage

-Cryotherapy, effusion control, pain management

-Scheduled NSAIDs & Tylenol

-Opioids for break through pain (goal to wean by end of week 2)

-Aspirin 81mg BID for DVT prophylaxis x4 weeks

-Weight bearing as tolerated, wean from crutches within 2-3 weeks

-Brace locked in full extension when ambulating for 10-21 days

-Can unlock brace when able to SLR without lag (good quad control)

-Goal to wean from brace by 6 weeks

-Rest with knee in full extension (no pillows behind knee when sleeping)

-Motion goals: 0-100° PROM

-Patellar mobilizations

-Prone hangs, heel props

-Quad sets, heel slides, 4-way SLRs, calf raises, ankle pumps, leg press

-Gait training to restore normal gait

Weeks 2-4

-First post-op visit at 2 weeks, sutures will be removed at this visit

-Start to wean from crutches & brace



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-Cryotherapy, effusion control, pain management

-Scheduled NSAIDs & Tylenol

-Finish Aspirin 81mg BID for DVT prophylaxis x4 weeks

-Motion goals: 0-120° PROM

-Stationary bike

-Maintain full extension, regain full flexion

-Patellar mobilizations

-Gentle stretching of hamstrings & gastroc-soleus complex

-Gait training to restore normal gait

-Strengthening

-Prone hamstring curls, 4-way SLRs,

-Closed chain presses

-Mini squats, ball squats, wall slides, leg press

-Bridge, clamshells, hip hikes

### Weeks 4-6

-Wean from crutches & brace (discontinue completely by 6 weeks)

-Cryotherapy, effusion control, pain management

-Motion goals: 0-130° AROM

-Stationary bike

-Normal gait

-Advance strengthening

-Balance: Double leg balance, static progress to dynamic, progress to single leg



## Phase II: Strengthening (Weeks 6-12) RISK PHASE FOR RE-RUPTURE

-Second post-op visit at 6 weeks (need full extension at this visit)

-Goal to come to appointment with normal gait, no brace, no crutches

-Continue cryotherapy, effusion control, pain modalities as needed

-Maintain full motion

-Elliptical, stationary bike, flutter kick swimming, pool jogging, stair climber

-Walking, side steps, step overs, forward and backwards

-Closed chain strengthening

-Leg press, squats, hip bridges, heel raises, core

-Balance: Single leg dynamic exercises

### Phase III: Jogging (Weeks 12-20)

#### Weeks 12-16

- -Third post-op visit at 12 weeks
- -Begin straight line jogging
- -Advance closed chain exercises
- -Advance balance exercises
- -Progress cardio (biking, swimming, elliptical)

#### Weeks 16-20

- -Biodex testing at 16 weeks (goal ~70% of unaffected extremity)
- -Progress running program
- -Initiate low velocity agility drills

-Skipping, side shuffle, carioca, crossovers, backwards jog



-Double leg landing/jumping mechanics

## Phase IV: Agility & Landing (Weeks 20-28)

- Weeks 20-24
- -Advance running program
- -Initiate high velocity agility drills
  - -Cutting, pivoting, ladder drills,
- -Single leg landing/jumping mechanics
- -Sport specific drills
- -Biodex testing (goal ~85% unaffected extremity)
- Weeks 24-28
- -Fourth post-op visit at ~24 weeks (6 months)
- -Advance sport activity
  - -Non-competitive drills x2 weeks
  - -Competitive drills x2 weeks

# Phase V: Return to sports (Weeks 28+)

- -Return to full sport participation (not before 7 months)
  - -Non-contact practice x2-4 weeks
  - -Contact practice x2-4 weeks
  - -Brace fitting for downhill skiers
- -Game competitions (7-10 months post-op)

-Final follow up @ 1 year post-op

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