

Rehabilitation Protocol: Anterior Cruciate Ligament Reconstruction; Complex Meniscus Repair

Phase I:

- Brace: Locked at O degrees extension for ambulation & sleeping
- 0-6 weeks
- ROM: 0-90 deg permitted with emphasis on full extension
- Weightbearing: NWB
- Exercises:
- -- Patella mobilization
- -- Straight leg raise supine with brace locked at 0 degrees
- -- Quad sets
- -- Ankle pumps
- -- Short crank (90mm) ergometry

Phase II:

- Brace: Brace may be unlocked for weightbearing, 0-90 deg
- 6-8 weeks
- ROM: 0-90 deg permitted when weightbearing; when not weightbearing can progress from 0-120 deg
- Weightbearing: transition to PWB then WBAT
- Exercises:
- -- Active knee extension from 40 degrees
- -- Standard (170mm) ergometry (if knee ROM >115 degrees)
- -- Leg press (80-0 degree arc)
- -- Mini squats/weight shifts
- -- Proprioception training
- -- Initiate step up program
- -- Avoid tibial rotation until 6 weeks

Phase III:

- Brace: D/C brace and wean from crutches when gait normalized

8-14 weeks

- ROM: full (but no loading beyond 90 degrees knee flexion)
- Weightbearing: Transition gradually from TTWB to WBAT
- Exercises:
- -- Progressive squat program
- -- Initiate step down program
- -- Leg press, lunges
- -- Isotonic knee extension (90-40 degrees, closed chain)
- -- Agility exercises (sport cord)
- -- Versaclimber/Nordic Track
- -- Retrograde treadmill ambulation

Phase IV:

- Brace: none
- 14-22 weeks ROM: full
- - Weightbearing: WBAT
 - Exercises:

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- -- Begin forward running (treadmill) program when 8" step down satisfactory
- -- Continue strengthening & flexibility program
- -- Advanced sports-specific agility drills
- -- Start plyometric program

Phase V: >22 weeks

- Brace: none
- ROM: full
- Weightbearing: WBAT
- Exercises:
- -- Advance plyometric program
- -- Return to sport-- MD directed, typically 8-9 months postop depending on sport
- *May require functional sports assessment prior to clearance to return to sport at \sim 6 months postoperatively

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