

**ACL RECONSTRUCTION - REVISION
POST-SURGICAL REHABILITATION PROTOCOL**

POST-OP DAYS 1 - 14

- Dressing:
 - POD 1: Debulk dressing, TED Hose in place
 - POD 2: Change dressing, keep wound covered, continue TED Hose
 - POD 7-10: Sutures out, D/C TED Hose when effusion resolved
- Brace x 6 weeks - Locked in extension for ambulation
- Open to available range when pt has good quad control (no extensor lag)
- Crutches - Partial weight bearing (PWB) in brace
- Patellar mobilization (teach patient)
- Calf pumping
- AAROM 0-90 degrees (passive extension, active flexion, heel slides)
- Passive extension with heel on bolster or prone hangs
- Electrical stimulation in full extension with quad sets and SLR
- Quad sets, Co-contractions quads / Hamstring
- Straight leg raise (SLR) x 4 on mat (in brace if poor quad control)
- Total Gym (level 3-5)
- Mini squats 0-45 degrees
- Passive flexion to 90 degrees max (push up with opposite leg)
- Leg press 0-45 degrees with light resistance (up to ¼ body weight)
- Hamstring curls - Standing
- Stationary bike for range of motion - Complete cycle as able
- Ice Pack with knee in full extension after exercise

GOALS

- Full passive extension
- Flexion to 90 degrees
- Good quad control

Weeks 2 - 4

- Brace x 6 weeks - Open to available range
- Crutches - PWB in brace
- Continue appropriate previous exercises and following ex without brace
- Scar massage when incision healed

- AAROM, AROM through full range as tolerated SLR x 4 on mat - Add light ankle weights if quad control is maintained
- Total Gym - Progress levels and ROM of mini-squats as tolerated
- Leg press 0-60 degrees with light resistance (up to $\frac{1}{4}$ body weight)
- Hamstring curls - Carpet drags or rolling stool (closed chain)
- Double leg heel raises
- Stationary bike - Progressive resistance and time
- Stretches - Hamstring, Hip Flexors, ITB

GOALS

- ROM 0-110 degrees
- No effusion
- No extensor lag

WEEKS 4 - 6

- Brace x 6 weeks - Open to available range
- Crutches - PWB in brace
- Continue appropriate previous exercises
- PROM, AAROM, AROM to regain full motion
- Weight shifts
- Mini squats 0-60 degrees - In parallel bars
- Leg press 0-60 degrees with light resistance (up to $\frac{1}{2}$ body weight)
- Hamstring curls on weight machine with light resistance

GOAL

- Full ROM

WEEKS 6 - 9

- D/C Brace
- Crutches - weight bearing as tolerated (WBAT), D/C when gait is WNL
- Continue appropriate previous exercises
- Standing SLR x 4 with light Theraband bilaterally
- Wall squats 0-45 degrees, progress to single leg
- Leg press 0-60 degrees with resistance as tolerated
- Hamstring curls with resistance as tolerated
- Forward, lateral and retro step downs in parallel bars
- No knee flexion past 45 degrees (small step)

- Single leg heel raises
- Proprioceptive training - Single leg standing in parallel bars
- Double leg BAPS for weight shift
- Treadmill - Forwards and backwards walking
- Stationary bike - 15-20 minutes at a time, at least 70 rpm

GOAL

- Normal gait

WEEKS 9 - 12

- Continue appropriate previous exercises with progressive resistance
- Wall squats 0-90 degrees
- Leg press 0-90 with resistance as tolerated
- Forward, lateral and retro step downs (medium to large step)
- Hip weight machine x 4 bilaterally
- Proprioceptive training - Single leg BAPS, ball toss and body blade
- Grid exercises
- Treadmill - Walking progression program
- Elliptical trainer
- Pool therapy - Walking / running (no kicking)

GOAL

- Walk 2 miles at 15 min/mile pace

MONTHS 3 - 4

- Continue appropriate previous exercises
- Fitter
- Slide board
- Stairmaster - Small steps
- Pool therapy - No swimming laps

GOAL

- Walk 3 miles at 15 min/mile pace

MONTHS 4 - 6

- Continue appropriate previous exercises
- Knee extension weight machine
- Short arc quads

- Functional activities - Figure 8s, gentle loops, large zigzags
- Pool therapy - Swimming laps
- Quad stretches

GOAL

- Equal thigh girth

MONTHS 6 - 9

- Isokinetic testing at 180 and 300 degrees/sec - Must have 80% of opposite leg to clear for straight line running
- Continue appropriate previous exercises
- Home/gym program
- Agility drills / Plyometrics
- Sit-up progression
- Treadmill - Running progression program if cleared
- Transition to home / gym program

GOAL

- Return to all activities

****NO CONTACT SPORTS UNTIL 12 MONTHS POST-OP****