

## **GALLAND/KIRBY ACL RECONSTRUCTION – REVISION POST-SURGICAL REHABILITATION PROTOCOL**

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### **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

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### **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 ¼ 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 ½ 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
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### **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
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### **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
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### **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
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### **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**

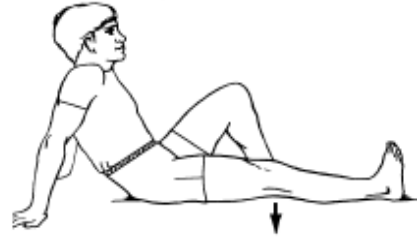
- Return to all activities

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

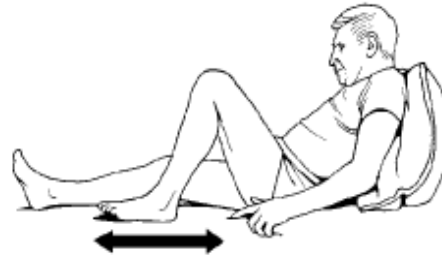
## KNEE POST-OP PHASE I

Perform exercises below frequently: 30 reps, 3 – 5x a day

**Quad Isometrics**



**Heel Slides**



**Active Assisted Motion**



**Ice Position 15 minutes 2-3 x per day**

