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GALLAND PATELLAR TENDON REPAIR 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 8 weeks – Locked in extension for ambulation
- Crutches – Partial weight bearing (PWB)
- Patellar mobilization (teach patient)
- Calf pumping
- AAROM 0-45 degrees (passive extension, active flexion, heel slides)
- Passive extension with heel on bolster or prone hangs

- Electrical stimulation – sub-maximal quad sets for muscle re-education
- Quad sets, Co-contractions quads / Hamstrings
- Standing Straight leg raise (SLR) x 4 (in brace)
- Gentle Hamstring stretch
- Ice Pack with knee in full extension after exercise

GOALS

- Full passive extension
- Good quad control
- Pain/effusion controlled

Weeks 2 - 4

- Brace x 8 weeks – Locked in extension for ambulation
- Crutches – Weight bearing as tolerated (WBAT), D/C when gait is normal
- Continue appropriate previous exercises
- AAROM 0-70 degrees (passive extension, active flexion)
- SLR x 4 on mat (in brace)
- Hamstring curls 0-45 degrees on weight machine with light resistance

- Double leg heel raises
- Proprioceptive training (in brace)
 - Single leg standing in parallel bars
 - Double leg BAPS for weight shift
- Stretches – Hamstring, ITB

GOALS

- ROM 0-70 degrees
 - No extensor lag
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WEEKS 4 - 6

- Brace x 8 weeks – Locked at 0-30 degrees for ambulation
- Continue appropriate previous exercises
- AAROM 0-90 degrees (passive extension, active flexion)
- Standing SLR x 4 (in brace) with Theraband bilaterally
- Hamstring curls 0-90 degrees on weight machine with light resistance
- Forward, lateral and retro step downs in parallel bars (in brace 0-45 degrees)
 - No knee flexion past 45 degrees (small step)

- Single leg heel raises (in or out of brace)
- Elliptical trainer (in brace)

GOALS

- Normal gait
 - ROM 0-90 degrees
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WEEKS 6 - 8

- Brace x 8 weeks – Gradually open to available range
- Continue appropriate previous exercises
- AAROM, AROM through full range
- Active knee extension without weight (no brace)
- SLR x 4 on mat with light weight below the knee (no brace)
- Leg press 0-60 degrees – Light resistance (no brace)
- Mini squats, Wall squats 0-60 degrees (no brace)
- Proprioceptive training (in brace) – Single leg BAPS, ball toss and body blade
- Stationary bike (no brace) – Progressive resistance and time
- Treadmill – Forwards and backwards walking (in brace)
- Pool therapy (flutter kicks from hip with knee in extension)

GOAL

- ROM 0-110 degrees
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WEEKS 8 - 12

- D/C Brace
- Continue appropriate previous exercises and following ex without brace
- PROM, AAROM, AROM to regain full motion
- Short Arc Quads
- Hamstring curls on machine through full range – Light to moderate resistance
- Leg Press 0-90 degrees – Light to moderate resistance
- Hip weight machine x 4 bilaterally
- Fitter
- Slide board
- Treadmill – Walking progression program

GOALS

- Full ROM

- Walk 2 miles at 15 min/mile pace
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MONTHS 3 - 4

- Continue appropriate previous exercises
- Knee extension weight machine with light to moderate resistance
- Functional activities – Figure 8s, gentle loops, large zigzags
- Treadmill – Running progression program
- Pool therapy – Swimming laps
- Quad and Hip Flexor stretches

GOALS

- Equal thigh girth
 - Equal quad flexibility in prone (heels to buttocks)
 - Run 2 miles at easy pace
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MONTHS 4 - 6

- Continue appropriate previous exercises
- Agility drills / Plyometrics
- Sit-up progression

- Stairmaster
- Running progression to track
- Transition to home / gym program

GOAL

- Return to all activities

****NO CONTACT SPORTS UNTIL 6 MONTHS POST-OP****

DEVELOPED BY:

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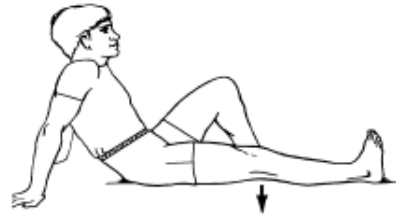
ADAPTED FROM:

Physical Therapy Section
William Beaumont Army Medical Center

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

