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Total Knee Arthroplasty Rehabilitation Protocol

Phase 1	Days 1 to 3
Rehabilitation Goals	 To protect the integrity and healing of the incision and arthrotomy
Suggested Therapeutic Exercise/Treatment	 Limit passive knee flexion to 90° until first post-op visit (approximately 2 weeks) No aggressive active knee extension May initiate active knee flexion in a controlled fashion WBAT with walker CPM 0-90° ROM 0-70° Cryotherapy Exercises: Foot pumps, quad sets, SLR, knee extension 0-30°, hamstring stretches, passive knee extension

	Day 4 to 14
Rehabilitation Goals	Continue to protect the integrity and healing of incision with limitations listed above
Suggested Therapeutic Exercise/Treatment	 WBAT as tolerated CPM 0-90° ROM 0-90° Gait training – instruct in transfers and stairs Foot pumps Quad sets SLR Knee extension 0-90° Hamstring stretches, passive knee extension: concentrate on full extension Hip Abduction / Adduction

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Phase 2	Weeks 2 to 4
Rehabilitation Goals	 Improve muscular strength, advance ROM, decrease inflammation, and swelling Knee flexion: Week 2 – 100 - 105° Week 3 – 110 - 115° Week 4 - 125°+
Suggested Therapeutic Exercise/Treatment	 Foot pumps Quad sets SLRs, Knee extension 0-90° Hamstring stretches Passive knee extension: concentrate on full extension Hip Abduction / Adduction Hamstring curls Quarter squats Bike for ROM: low resistance, easy pace NOTE: Before beginning next phase of rehabilitation, patient should be able to do SLR on their own, active ROM 0-90°, have controlled swelling, and be able to ambulate independently

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Phase 3	Weeks 5 to 12
Rehabilitation Goals	 Improve muscular strength Increase functional activity Greater control of leg for daily activity
Criteria to enter Phase 3	 Range of motion 0-115 degrees Voluntary quadriceps muscle control Independent ambulation Minimal pain/inflammation
Suggested Therapeutic Exercise/Treatment	 WBAT with assistive device as needed Continue all exercises listed above Slowly begin walking program Closed kinetic chain strengthening program: emphasizing eccentric and concentric strengthening

Phase 4	Weeks 12-24
Rehabilitation Goals	 Allow patients to return to advanced level of function (recreational activities) Maintain/improve strength and endurance of lower extremity Return to normal lifestyle
Criteria to enter Phase 4	 Full, non-painful ROM 0-120 degrees Minimal to no pain and swelling Satisfactory clinical examination
Suggested Therapeutic Exercise/Treatment	Instruct on maintenance home exercise program Bike for ROM stimulus and endurance Strengthening Stretching Knee extension to 0 degrees Knee flexion to 105 degrees Initiate gradual golf tennis, swimming, bicycle, walking program

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