GUIDELINE



REAHB SERVICES

## Purpose:

This guideline is designed to return the individual to their full activities as quickly and safely as possible, following a Total Knee Replacement. Modifications to this guideline may be necessary dependent on physician specific instruction or other procedures performed. This evidence-based Total Knee Replacement guideline is criterion-based; time frames and visits in each phase will vary depending on many factors. The therapist may modify the program appropriately depending on the individual's goals for activity following a Total Knee Replacement.

This guideline is intended to provide the treating clinician with a frame of reference for rehabilitation. It is not intended to substitute clinical judgment regarding the patient's post-operative care based on exam/treatment findings, individual progress, and/or the presence of concomitant procedures or post-operative complications. If the clinician should have questions regarding post-operative progression, they should contact the referring physician.

## **Precautions:**

- WBAT
- If patient has a concomitant injury/repair, weight bearing, or treatment may vary-consult with physician

PHASE	SUGGESTED INTERVENTIONS	MILESTONES FOR PROGRESSION
Pre-Op	PT to improve ROM, therapeutic exercises to improve functional strength, modalities to control pain and inflammation, manual therapy, and educate patient on upcoming surgery and post-op exercises	Instruct items as needed to address current deficit
Phase I Surgery-3 Weeks	<ul> <li>IP Therapy:</li> <li>Begin bed mobility, transfers, sitting EOB, standing EOB with FWW, and ambulation day of surgery</li> <li>AAROM and AROM exercises including:  <ul> <li>Ankle pumps, quad sets, ham sets, SAQ, SLR</li> </ul> </li> <li>Bed mobility and transfers/gait with FWW</li> <li>Progress to independent HEP including:  <ul> <li>LAQ, hamstring curls, polish the floor, bend on ball</li> <li>Address stair/curb training as needed</li> </ul> </li> <li>Begin ADL training prn including:  <ul> <li>Reacher, sock aide, etc.</li> <li>Assist pt in acquiring equipment including bath chair, reacher, sock aide, toilet raiser, etc.</li> </ul> </li> <li>OP Therapy:  <ul> <li>Control pain and inflammation, modalities PRN</li> </ul> </li> </ul>	Goals: Skin healing Protection of joint replacement Return to least restrictive environment for continued care ROM 0-100°  Criteria to Advance: Healing as expected

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	<ul> <li>Progress strengthening, muscle re-education, ROM, HEP, and independent mobility</li> <li>Soft tissue mobilization for scar management</li> <li>PROM/assisted stretch/grade 1-2 joint mobilization</li> <li>Stationary bike on low resistance</li> <li>Gait training to increase WB tolerance, decrease need for AD and progress to cane or no AD</li> <li>Stair training using reciprocal pattern</li> <li>SLR, assisted squats, toe taps</li> </ul>	
Phase II Weeks 3-6	<ul> <li>Therapy:</li> <li>Regain endurance</li> <li>Increase coordination and proprioception</li> <li>ROM 0-110°</li> <li>Restore normal gait, wean off assistive devices at 4 weeks</li> <li>Control pain and inflammation with modalities PRN</li> <li>NMES to quads if poor quadriceps recruitment is present</li> <li>SLR without lag, add resistance towards the end of this phase</li> <li>Progress HEP</li> <li>Progress to closed chain exercises including:  <ul> <li>Terminal knee extensions</li> <li>Mini-squats &amp; lunges</li> <li>Strengthening in open and closed chain</li> </ul> </li> <li>Joint mobilization and assisted ROM</li> <li>Proprioceptive exercises</li> </ul>	Goals:  Healing & swelling reduction Increase in ROM Improved strength Neuromuscular re-education  Criteria to Advance: Healing as expected
Phase III Weeks 6-12	<ul> <li>Therapy:</li> <li>Return to prior activity</li> <li>Improve flexion ROM past 110°</li> <li>Gain eccentric-concentric control of limb</li> <li>Independent ambulation</li> <li>Progress to more independent HEP</li> <li>Direct treatment to residual restrictions in ROM, strength, or function</li> </ul>	Goals:  Swelling reduction Increase in ROM Neuromuscular re-education Develop baseline of L/E control and strength  Criteria to Discharge: Normal gait pattern Pain & edema control ROM goals achieved Independent HEP

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## **Total Knee Replacement**



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