

Meniscal Allograft Transplantation (MAT) Rehabilitation Protocol

| | Weight-bearing | Brace | Range of Motion | Exercises |
|---------------------------|---|---|--|--|
| Phase 1 0-2 weeks | Heel touch only | Locked in full extension at all times | Gentle passive 0- 90° | Calf pumps, patellar |
| | | | | mobilization, quadriceps |
| | | Off for hygiene and home exercise only | | tightening sets and SLR in |
| | | | | brace. |
| Phase 2 2-8 weeks | 2-6 weeks: Heel touch only | touch only Unlocked 0-90° Discontinue brace at 6 weeks to ce 25% y and ess to full tormalized | Advance as tolerated CPM continues for 6 hours per day 0-90° | 2-6 weeks: Add side-lying hip and core, advance quad set and stretching ^a |
| | 6-8 weeks: Advance 25% weekly and progress to full with normalized gait pattern | | | 6-8 weeks : Addition of heel raises, total gym (closed chain), gait normalization, eccentric quads, eccentric hamstrings. |
| | | | | Advance core work with hip, gluteal and core strengthening |
| | | | | No weight-bearing with flexion >90° |
| Phase 3 8-12 weeks | Full | None | Full | Progress closed chain activities. |
| | | | | Advance hamstring exercises, proprioception & balance exercises, lunges & leg press 0- 90° only |
| | | | | Advance core work with hip, gluteal and core strengthening |
| Phase 4 3-5 months | Full | None | Full | Begin Stationary Bike at 10 weeks Progress Phase III exercises and functional activities: walking lunges, planks, bridges, Swiss ball, half-Bosu exercises |
| | | | | Advance core work with hip, gluteal and core strengthening |
| | | | | Swimming allowed at 16 weeks |
| Phase 5 5-12 months | Full | None | Full | Advance non-impact activity. No running, jumping, pivoting, or sports participation unless cleared by MD |

CPM – continuous passive motion machine; SLR – Straight-leg raise;

^aAvoid tibial rotation for first 8 weeks.

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