

Knee Arthroscopy

(Debridement of Partial Menisectomy)

Precautions: The patient will ambulate with crutches (and immobilizer if prescribed) and WBAT <u>unless instructed</u> <u>otherwise by physician.</u> The patient may discontinue crutches when he/she can ambulate securely, has no evidence of instability, has appropriate quad strength, and can perform a normal gait pattern.

Phase I (1 - 5 days post-op)

- Wound care: Observe for signs of infection
- Modalities: prn for pain and inflammation (ice, IFC)
- Brace: If prescribed
- ROM: Pain-free ROM and gradually achieve full extension
- Exercises: Quad sets, SLR, heel slides

Phase II (5 days – 4 weeks post-op)

- Wound care: Continue to monitor for signs of infection and begin scar management techniques when incision is closed
- Modalities:
 - NMES if unable to perform quad sets and positive extensor lag during SLR
 - Continue ice/game ready and IFC for pain and inflammation
 - o sEMG neuro-muscular re-education for quad
- Brace: D/C brace (if prescribed) by 5 days
- Gait
 - o D/C crutches as soon as quad strength and pain allow
 - Normalize gait pattern on level surfaces and progress to step-over-step pattern on stairs
- ROM:
 - o 2 weeks: minimum of 0-90 degrees, not more than 120 degres
 - 4 weeks: achieve full AROM, if pain allows
 - o Passive positional stretches of knee extension and flexion
 - o Heel slides/Standing knee flexion
 - o Full revaluations on stationary bike
 - o Increase/maintain patellar mobility with emphasis on superior glide
- Strengthening
 - Quad sets (open and closed chain at multiple angles)
 - SLR (eliminate extensor lag)
 - Hip strength
 - Until 3 weeks: closed chain strengthening
 - o Proprioception activities(Initially bilateral and transition to unilateral as strength and pain permit)

Initiation Date: 01-01-05 Revised Date: 4-17-14

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- Post-op 3 weeks: begin open chain strengthening without pain (Only if no concern for ACL injury or patellofemoral compression)
- Conditioning
 - o UBE
 - Stationary bike with well leg (full revolutions and speed)

Phase III (4 – 10 weeks post-op)

- Wound care: Continue to monitor
- Modalities: Continue prn
- ROM: Emphasize full extension
 - Patellar mobility
 - o Rectus femoris/hip flexor stretches
- · Strengthening:
 - Continue Phase II with progression of resistance
 - Initiate jumper for leg presses and eventually transition from jumper to weighted leg press
 - Treadmill forward and retro. Transition to jog after 6 weeks for athletes, if no pain
 - Add work simulation tasks (material handling, step heights, push/pull, etc)
- Conditioning:
 - Stepper
 - o Treadmill increasing to a power walk
 - Stationary bike
 - o UBE
 - o Pool, if available
- Testing: Initial Functional Testing prior to 6-8 week physician follow-up appointment

Phase IV (10+ weeks post-op)

- Wound care: Continue scar mobs
- Modalities: Continue prn
- ROM: full ROM
- Strengthening: Increase weights and reps of previous exercises
- Conditioning and Agility:
 - Increase to running on treadmill (Initially supervised by therapist)
 - Jump downs progressing to plyometrics
 - Gradual to sport specific/work specific drills and exercises
- Testing: Final Functional tests <25% deficit for non-athletes and <20% for athletes
- Initiate work conditioning for job related tasks. Follow-up with school ATC to continue sport specific training and skills

Adapted from: Brotzman SB, Wilk KE. Clinical Orthopedic Rehabilitation Second Edition. Philadelphia: Mosby; 2003

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