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# GUIDELINES FOR REHABILITATION FOLLOWING ARTHROSCOPIC MENISCECTOMY, LOOSE BODY REMOVAL OR DEBRIDEMENT

#### REHABILITATION PROGRESSION

The following are guidelines for rehabilitation progression following meniscectomy, loose body removed, or debridement, etc. Progression through each phase is based on patient status (e.g. healing, constraints, function), clinical exam findings, and physician advisement. Please consult the attending physician if there is uncertainty regarding the progression to the next phase of rehabilitation.

**PHASE I:** Begins immediately following surgery until specified criteria are met to advance to Phase II.

#### Goals:

- Protect healing soft tissue structures
- Improve knee flexion and extension range of motion
- Increase lower extremity strength, including quadriceps muscle re-education
- Educate patient regarding limitations and the rehabilitation process

## **Weight-Bearing Status:**

- Weight bearing as tolerated. Two crutches progress to discontinue crutches as swelling and quad status dictates.

#### **Therapeutic Exercises:**

- Quad sets and isometric adduction with biofeedback for VMO (if necessary)
- Heel slides (AAROM)
- Ankle pumps
- Non-weight-bearing gastroc/soles, hamstring stretches
- SLR in flexion, abduction, adduction, and extension
- Functional electrical stimulation may be used for trace to poor quad contraction
- Hamstring and calf stretching
- May begin aquatic therapy at 2 weeks once incisions heal well with emphasis on normalization of gait
- Stationary bike when patient has sufficient knee flexion. Can start partial revolution to recover motion if patient does not have sufficient knee flexion.

#### PHASE II

#### Criteria for advancement to Phase II:

- No quad lag during SLR
- Approximately 90° of active knee flexion
- Full active knee extension
- No signs of active inflammation

#### **Goals:**

- Increase range of flexion

- Increase lower extremity strength and flexibility
- Restore normal gait
- Improve balance and proprioception

#### **Weight-Bearing Status:**

May begin ambulation without crutches if the following criteria are met:

- No extension lag with SLR
- Full active knee extension
- Knee flexion of 90-100°
- Non-antalgic gait pattern (may ambulate with one crutch or a cane to normalize gait before ambulating without assistive device)

#### **Therapeutic Exercises:**

- Wall slides from 0-45° of knee flexion, progressing to mini-squats
- 4-way hip for flexion, extension, abduction and adduction
- Closed kinetic chain terminal knee extension with resistive tubing or weight machine
- Calf raises
- Balance and proprioceptive activities (including single leg stance, KAT and BAPS)
- Treadmill walking with emphasis on normalization of gait pattern
- ITB and hip flexor stretching, as necessary

#### PHASE III

### Criteria for advancement to Phase III:

- Normal gait
- Full flexion of involved knee or within 10° difference from uninvolved knee
- Good quadriceps strength
- Good dynamic control with no patellofemoral complaints
- Clearance by physician to begin more concentrated closed kinetic chain progression

#### Goals:

- Restore any residual loss of range of motion
- Continue improving quadriceps strength
- Improve functional strength and proprioception

#### **Therapeutic Exercises:**

- Quadriceps stretching
- Hamstring curl
- Leg press from 0-45° knee flexion
- Closed kinetic chain progression
- Abduction on 4-way hip
- Stairmaster
- Nordic Track
- Jogging in pool with wet vest or belt

# <u>PHASE IV:</u> Begins once criteria are met and extends until patient has returned to work or desired activity Criteria for advancement to Phase IV:

- Release by physician to resume full or partial activity
- No patellofemoral or soft tissue complaints
- Necessary joint range of motion, muscle strength and endurance, and proprioception safely return to work or athletic participation

#### Goals:

- Continue improvements in quadriceps strength
- Improve functional strength and proprioception

- Return to appropriate activity level

## **Therapeutic Exercises:**

Functional progression which may include but is not limited to:

- Slide board
- Walk/jog progression
- Vertical jump
- Forward and backward running, cutting, figure 8, and carioca
- Plyometrics
- Sport-specific drills

Work hardening program as prescribed by physician