

# **Meniscus Repair**

**Precautions:** WB status varies according to surgical technique. If it is not specified, check with physician.

**Goals**: Control inflammation/effusion, allow early healing, full passive extension, gradually increase knee flexion and independent quad control

## Phase I (1 - 5 days post-op)

- Modalities: prn for pain and inflammation (ice/IFC)
- Brace/Gait:
  - Dr. Ferry: NWB or TTWB unless otherwise prescribed. Brace unlocked 0-90 degrees for 4 weeks
  - Dr. Whitehurst: NWB or TTWB unless otherwise prescribed. Brace locked in extension for 4 weeks
  - o Dr. Trenhaile: WBAT. Brace locked in extension for 6 weeks during WB
- ROM: Do NOT force ROM
  - Week 2: 0-100 degrees
  - Week 3 0-110 degrees
  - Week 4: 0-120 degrees
- Patellar mobilizations
- Exercises:
  - Quad sets
  - Hamstring, gastroc, and soleus stretches- NWB
  - Hip abd/add isometrics
  - Avoid active knee flexion (due to semimembranosus insertion to posterior medial meniscus). ONLY passive heel slides

#### Phase II (5 days – 4 weeks post-op)

- Wound care: Monitor wound site and begin scar management techniques when incision is closed
- Modalities: prn
- Brace/Gait:
  - Drs. Whitehurst and Ferry: NWB or TTWB unless otherwise prescribed. Brace unlocked 0-90 degrees for 4 weeks
  - o Dr. Trenhaile: WBAT. Brace locked in extension for 6 weeks during WB

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- ROM: 0-90 degrees by 4 weeks. Do NOT force ROM
- Strengthening: Continue Phase I exercises
  - Active heel slides, progressing to prone knee flexion, or standing knee flexion without resistance (caution if posterior medial meniscus repair)
  - SLR x4 directions
  - SAQ including multi-angle quad sets
  - o Ankle resistance with theraband
  - Dr. Trenhaile: Closed chain weight-shifting with brace locked in extension

### Phase III (4 weeks – 10 weeks post-op)

- Brace/Gait:
  - Drs. Whitehurst and Ferry
    - At 4 weeks post-op, progress to FWB with brace open 0-120 degrees
    - At 6 weeks, wean out of brace
  - o Dr. Trenhaile
    - Until 6 weeks post-op, WBAT with brace locked in extension
    - At 6 weeks post-op, gradually wean from brace

ROM: At 4-6 weeks post-op, progress to 0-120 degrees. Do NOT force ROM Strengthening: Adhere to WB status (as listed above)

Cardiovascular exercise without resistance

Stationary cycle or seated recumbent stepper

May begin treadmill ambulation when patient is able to demonstrate normal gait pattern

 Closed chain exercises: Limited knee ROM 0-60 degrees. Keep hip and knee in neutral position

Mini squats, wall sits, and leg press

Step ups

Partial lunges

Hip and Core strengthening, including 4way hip with resistance

Uniplanar balance board

Proprioceptive training and single leg balance

TKE with theraband

Hydrotherapy

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## Phase IV (10+ weeks post-op)

- Precaution: Post-activity soreness should resolve within 24 hours
- Gait: Independent ambulation without brace or assistive device
- ROM: Full AROM
- Strengthening:
  - Closed chain exercises: Progress squats, lunges, and leg press 0-90 degrees
  - Heel raises
  - Progress core and hip strengthening/overall endurance training
  - Initiate "light" hamstring curls
  - Sport specific training and agility activities
    - Begin with low velocity, single plane activities and progress to higher velocity, multi-plane activities
    - Strength, balance, and control drills related to sport specific movements
    - Treadmill- begin running per physician
- Testing: <25% deficit for non-athlete and <20% deficit for athlete</li>

#### Adapted From:

1) Wilk KE, Reinhold MM, Andrews JR. Meniscus Repair Rehabilitation (Complex Tears). Winchester, MA: Advanced Continuing Education Institute, 2019.

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