



Indiana University Health

IU Health Physicians Orthopedics & Sports Medicine

MENISCUS ALLOGRAFT TRANSPLANTATION (MAT)

PHYSICAL THERAPY PROTOCOL

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Patient Name:			Date of Surgery:	
Evaluate and Treat			Provide patient with home program	
Frequency:	x/week	X	weeks	

General Precautions:

- NWB for 6 weeks
- Transition to WBAT between 6-8 weeks
- All weightbearing is in extension for the 6-8 week transition
- ROM is limited to 90 degrees for 4 weeks; full ROM progression thereafter
- Brace use for 8 weeks or later if not yet safe to d/c per PT team
- Avoid tibial rotation for 8 weeks



Phase I (0-6 weeks): Period of protection

- Weightbearing:
 - o Non-Weight Bearing (NWB) with crutches, brace locked in extension.
- Brace:
 - Locked in extension for ambulation and sleeping (removed for hygiene and ROM exercises).
- **ROM**:
 - o 0-4 weeks: 0-90° (NWB). Ensure full extension by 2 weeks.
 - o 4-6 weeks: Full NWB range of motion allowed.
- Therapeutic exercises:
 - o Patellar mobilizations: 5-10 minutes daily
 - o Electric stimulation for quad control
 - Heel slides
 - o SLRs supine
 - o Isometrics for quads, hip abductors and adductors
 - o Passive leg hangs to 90°
 - o Ankle/hip strengthening

Phase II (6-12 weeks): Strengthening phase.

- Weightbearing: Progression to WBAT weeks 6-8
- **Brace:** Unlock week 8 and discontinue once able to perform 10 SLR without lag.
- **ROM:** Full active ROM
 - Therapeutic Exercises:
 - o As above with progressive resistance
 - o Progress close chain activities
 - o Proprioception exercises
 - o Week 8:
 - Begin stationary bike without resistance
 - Lunges/leg press 0-90°
 - **Restrictions:** No running, no impact activities.

Phase III (12-20 weeks): Sports-specific activities

- Weight Bearing: As tolerated.
- **ROM:** Full active ROM.
- Therapeutic Exercises:
 - o As above.
 - o Focus on single-leg strengthening and balance
 - o Eccentric exercises
 - o Begin jogging program 4 months post op.
 - Once able to jog 20-30 minutes (5-6 weeks into program) without discomfort or swelling, may progress to functional activities to include figure 8's, cutting and jumping.



Phase IV(> 20 weeks): Return to athletics.

- Weight Bearing: As tolerated.
- **ROM:** Full active ROM.
- Therapeutic Exercises:
 - o As above.
 - o Gradual return to athletic activity as tolerated
 - o Maintenance program for strength and endurance
- Criteria to return to sports (~ 6mo):
 - o Full pain free ROM
 - o Normal isokinetic evaluation and function tests
 - o Satisfactory performance of sport specific activities without effusion

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