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PHYSICAL THERAPY PROTOCOL MENISCAL REPAIR +/- LIGAMENT RECONSTRUCTION +/- CARTILAGE RECON

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Procedure	Date of Surgery:
	Surgery Type (s):
	[] Meniscal repair (including root repair)
	[] ACL Reconstruction
	[] Osteochondral Allograft
	[] Osteochondral Autograft
	[] Cell Based Cartilage Repair (MACI, DeNovo, Cartiform, BioCartilage)
	Brace use: weeks
	[] TTWB [] PWB x weeks
	[] WBAT
	Notes:
Plan	Physical Therapy for R L B/L Lower Extremity
-	2-3x Per Week x 12 Weeks
Plan General Guidelines	2-3x Per Week x 12 Weeks Please read and follow guidelines below. Progression is both criteria-based and patient
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	 Use crutches toe touch-weight bearing for 2 weeks. Brace locked to 0 degrees for ambulation until pt exhibits excellent quad control; brace can then be unlocked to 90 degrees when there is good quad control and worn through week 6.
Phase II	General:
(Weeks 1-6)	 Maintain program as outlined in week 0 to 1 Continue with modalities to control inflammation Initiate global lower extremity stretching program Proprioception drill emphasizing neuromuscular control Multi-plane ankle strengthening
	 Goals: Progressive Stretching and Early Strengthening Control post-operative pain / swelling Progress passive/active range of Motion 0 – 90° for first four weeks then advance to 120 Prevent Quadriceps inhibition Restore normal gait Normalize proximal musculature muscle strength Independence in home therapeutic exercise program
	Precautions: Ambulate TTWB in brace locked in extension for weeks 0-2. Progressive weight bearing with crutches after week 2 – In general, start patient with TTWB with 2 crutches for first week then progress to WBAT with 1 crutch (in opposite arm) x 1 week and then discontinue crutches starting at end of week 4 if gait and quad function allow (nonantalgic gait) Postoperative bracing for 6 weeks postoperatively. Discontinue once good quad control. Avoid neglect of range of motion exercises
	Treatment Strategies:

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	 Progressive Weight Bearing as Tolerated with crutches starting after day 14 (D/C
	crutches when gait is non-antalgic)
	 Begin stationary bike and pool exercise program (when incisions healed)
	 Implement reintegration exercises emphasizing core stability
	 If available, underwater treadmill system (gait training) if incision benign
	 Quadriceps re-education (Quad Sets with EMS or EMG)
	 Multiple Angle Quadriceps Isometrics (Bilaterally – Submaximal, Avoid lesion)
	■ Short Crank ergometry → Standard ergometry
	■ SLR's (all planes) in brace.
	Hip progressive resisted exercises
	■ Leg Press (60→0° arc) Bilaterally
	■ Pool exercises
	Cryotherapy
	Plantar Flexion Theraband
	Lower Extremity Flexibility exercises
	 Upper extremity cardiovascular exercises as tolerated
	Home therapeutic exercise program: Evaluation based
	Emphasize patient compliance to home therapeutic exercise program and weight
	bearing progression
	Criteria for Advancement:
	Normalized gait pattern
	■ ROM 0 → 120° after week 4
	 Proximal Muscle strength 5/5
	■ SLR (supine) without extension lag
Phase III	General:
(Weeks 6-12)	Normalize gait pattern
(VVEEKS 0-12)	 Advance stationary bike program; begin treadmill walking and elliptical trainer; no
	running and impact activity
	 Initiate closed kinetic chain exercises progressing bilateral to unilateral
	 Initiate proprioception/balance training
	Goals:
	ROM 0° → WNL
	Normal patella mobility
	 Ascend 8"stairs with good control without pain (may need to modify for patellar &
	trochlear lesions)

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Precautions:

- Avoid descending stairs reciprocally until adequate quadriceps control & lower extremity alignment is demonstrated
- Avoid pain with therapeutic exercise & functional activities

Treatment Strategies:

- Continue Progressive Weight Bearing as Tolerated /Gait Training with crutches (if needed)
- Brace / Patella sleeve per therapist and patient preference
- Underwater treadmill system (gait training)
- Gait unloader device
- AAROM exercises
- Patella mobilizations
- Leg Press (90→0° arc) Bilaterally → Eccentric
- Mini Squats
- Retrograde treadmill ambulation
- Proprioception/Balance training:
 - Proprioception board / Contralateral Theraband Exercises / Balance systems
- Initiate Forward Step Up program
- Stairmaster
- SLR's (progressive resistance)
- Lower extremity flexibility exercises
- OKC knee extension to 40° (pain/crepitus free arc)
- Home therapeutic exercise program: Evaluation based

Minimum Criteria for Advancement:

- ROM WNLs
- Demonstrate ability to descend 8" step
- Good patella mobility

Phase IV (Weeks 12-24)

General:

- Weeks 12-16:
 - o Initiate gym strengthening-beginning bilateral progressing to unilateral
 - Leg press, heel raises, hamstring curls, squats, lunges
- Weeks 16 to 24:
 - o Continue with advanced strengthening
 - Begin functional cord program

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Goals:

- Demonstrate ability to descend 8"stairs with good leg control without pain
- 85% limb symmetry on Isokinetic testing & Forward Step Down Test
- Return to normal ADL
- Improve lower extremity flexibility

Precautions:

- Avoid pain with therapeutic exercise & functional activities
- Avoid running till adequate strength development and MD clearance.

Treatment Recommendations:

Progress Squat program

Initiate Step Down program

Leg Press (90 - 0° emphasizing eccentrics)

OKC knee extensions 90

0° (pain/crepitus free arc)

Advanced proprioception training (perturbations)

Agility exercises (sport cord)

Elliptical Trainer

Retrograde treadmill ambulation / running

Hamstring curls / Proximal strengthening

Lower extremity stretching

Forward Step Down Test (NeuroCom)

Isokinetic Test

Home therapeutic exercise program: Evaluation based

Criteria for Advancement:

- Ability to descend 8"stairs with good leg control without pain
- 85% limb symmetry on Isokinetic testing & Forward Step Down Test

Phase V (Weeks 24+)

General:

- Follow-up examination with physician
- Implement sport specific multi-directional drills
- Continue with lower extremity strengthening, cardiovascular training, and flexibility

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Goals:

- Lack of apprehension with sport specific movements
- Maximize strength and flexibility as to meet demands of individual's sport activity
- Isokinetic & Hop Testing > 85% limb symmetry

Precautions:

- Avoid pain with therapeutic exercise & functional activities
- Avoid sport activity till adequate strength development and MD clearance
- Be conscious of Patellofemoral overload with increased activity level

Treatment Strategies:

- Continue to advance LE strengthening, flexibility & agility program
- Forward running
- Plyometric program
- Brace for sport activity (MD preference)
- Monitor patient's activity level throughout course of rehabilitation
- Reassess patient's complaint's (i.e. pain/swelling daily adjust program accordingly)
- Encourage compliance to home therapeutic exercise program
- Home therapeutic exercise program: Evaluation based

Criteria for Discharge:

- Isokinetic & Hop Testing > 85% limb symmetry
- Lack of apprehension with sport specific movements
- Flexibility to accepted levels of sport performance
- Independence with gym program for maintenance and progression of therapeutic exercise program at discharge