



Karly Dawson, PA-C Teaching Associate

REHABILITATION GUIDELINES FOR

ARTHROSCOPIC MENISCAL REPAIR

PHASE I (0-3 WEEKS)

DATES:

Appointments	MD appointment at 2 weeks for suture removal, 6 weeks for follow up
	Physical therapy 2-3x/week, beginning 2-5 days post-op
Rehabilitation Goals	 Full extension symmetrical to contralateral knee before the first post-op visit at 2 weeks PROM 0-90° 20° SLR without quad lag
Precautions	ROM: Flexion limited to 90 degrees x 6 weeks
	Brace:
	 Brace locked 0° for ambulation, brace open 0-90° at rest in sitting May remove brace for sleep and exercises after 1 week
	WB:
	 WBAT with crutches, brace locked in 0° extension x6 weeks post-op If repair is a root repair, patient is non-weight bearing x 6 weeks
Suggested Therapeutic Exercises	 Prolonged extension- prone hang, supine with roll under ankle Heel slide, wall slide Isometric quad set, then SLR Hamstring isometrics 4-way hip and ankle exercises Initiate proprioceptive/balance exercises: weight shifts forward, retro, lateral with brace locked in extension
	 Patellar mobilizations (especially cranially) Ice 5x/day, 20min each time. Especially after exercises
Cardiovascular Exercises	• UBE

ARTHROSCOPIC MENISCAL REPAIR

Appointments	Continue physical therapy 2x/week (can drop to 1 x/week if 0-90 achieved)
Rehabilitation Goals	 AROM 0-90° Advanced strengthening (within brace/ROM precautions) Consider early neuromuscular retraining with NMES DC brace at 6 weeks post-op, continue brace if patient does not have full extension and/or cannot perform SLR without extension lag.
Precautions	ROM : Flexion limited to 90 degrees x 6 weeks Brace :
	 Wear brace locked in extension for ambulation and all weight bearing x 6 weeks except for sleeping, exercises
Suggested Therapeutic Exercises	 Quad: quad set, SAQ, LAQ Hamstring: hamstring set, prone knee flexion Calf, hip: extension, hip ABD, hip ADD in non-weight bearing
Cardiovascular Exercises	• UBE
Progression Criteria	 Minimal Effusion Functional control for ADLs achieved

PHASE III (6 WEEKS – 3 MONTHS) DATES:

Appointments	Continue physical therapy to 1-2x/week
Rehabilitation Goals	 Full ROM Progress neuromuscular retraining program Core integration
Precautions	May DC brace locked in extension for gait at 6 weeks

ARTHROSCOPIC MENISCAL REPAIR

	No downhill walking/running, downhill skiing/biking x 4.5 months
Suggested Therapeutic Exercises (Phase III continued)	 HEP 5x per week Strengthening: begin closed kinetic chain exercises with knee flexion Mini squat, mini lunges, bridges, sport cord, wall squats, step up/down Progress neuromuscular proprioceptive/balance exercises including single leg balance progression- varying surfaces Pool available: begin 4 way hip, lateral movement, deep water jogging in place (no freestyle or frog/breaststroke kick)
Cardiovascular Exercises	 Stationary bike with resistance and operative leg pedaling, may begin road biking outdoor on flat roads only Elliptical, Stair master, Treadmill walking
Progression Criteria	 Neuromuscular exercises without difficulty No dynamic valgus with exercises

DATES:

PHASE IV (3 TO 5 MONTHS)

Appointments	Continue physical therapy 1-2x per week
Rehabilitation Goals	 Running patterns at 75% speed Good jumping mechanics- NO DYNAMIC VALGUS Hop drills without difficulty
Precautions	 No downhill walking/running, downhill skiing, downhill biking until 4.5 months
Suggested Therapeutic Exercises	 HEP 5x per week Agility drills: shuffling, hopping, running patterns (Ex: figure 8) Some sport specific: closed-chain exercises including leg press (0-60°), step ups, mini squats (0-60°), short arc quad (30-90°), hamstring curls with light weight/high repetition
Cardiovascular Exercises	 Begin endurance closed-chain exercises 3-4x/week: Stairmaster, stationary bike, elliptical, NordicTrack (short stride Gait training: jogging on treadmill or even ground at 12 weeks, progress to running patterns at 75% Pool available: may start freestyle swimming (avoid frog/breaststroke

ARTHROSCOPIC MENISCAL REPAIR

	kick), progress to shallow water jogging
Progression Criteria	 Running without knee pain or effusion Hopping/agility drills without knee pain or effusion

PHASE IV (5 TO 8 MONTHS)

DATES:

Appointments	Continue physical therapy 2 visits per month to review HEP
Rehabilitation Goals	 Slow progression from jogging on even ground or treadmill to running patterns, hill work, cutting, jumping, pivoting May begin plyometric program: jump rope exercises
Precautions	 Earliest return to sport = 9 months Must pass return to sport test
Suggested Therapeutic Exercises	 HEP 4-5x per week Return to sport testing at 9 months post-op, prior to MD visit Agility drills: shuffling, hopping, running patterns (Ex: figure 8) Sport Specific: plyometric program, fast straight running, backward running, cutting, cross-overs, carioca, etc. in controlled environment
Cardiovascular Exercises	Pool available: may advance swimming (avoid frog/breaststroke kick)
Progression Criteria (Return to Sport)	 quadriceps and hamstring strength at least 90% of opposite leg Single leg hop test and vertical jump at least 90% of opposite leg Jog, full speed run, shuttle run, and figure of 8 running without a limp Full controlled acceleration and deceleration Squat and rise from a full squat No effusion or quadriceps atrophy

References:

Mammoth Orthopedic Institute

PT name and date: Ariel Duvall June 2017

MD name and date: Timothy Crall June 2017

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