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Meniscus Radial Repair

Post-Operative Rehabilitation Protocol

0-4 weeks

- NWB x 6 weeks
- Brace locked in 0 degrees extension when ambulating or sleeping
- AROM/PROM: 0-90° with emphasis on full extension
- Patella mobilization
- SLR supine with brace locked at 0 degrees
- Quad Sets with brace locked at 0 degrees
- Heel Slides
- Ankle Pumps

4-6 weeks

- Continue NWB status until 6 weeks with brace locked in 0 degrees extension
- Progress with ROM until full

6-8 weeks

- Transition to an unloader brace at 6 weeks will continue to wear until 6 months
- Begin WBAT progression: advance to PWB (25% then 50%) starting at 6 weeks continue to progress until full WBAT
- Discontinue crutches when gait is normalized Wall sits to 90 degrees

8-12 weeks

- WBAT with use of unloader brace until 6 mon. post-op
- Full ROM
- Progress with close chain exercises
- Lunges from 0-70 degrees
- Leg press from 0-70 degrees
- Proprioception exercises
- Begin stationary bike

12-16 weeks

- Progress strengthening exercises
- Single leg strengthening
- Begin jogging and progress to running
- Sports specific exercise

Weight Bearing Status

NWB x 6 weeks

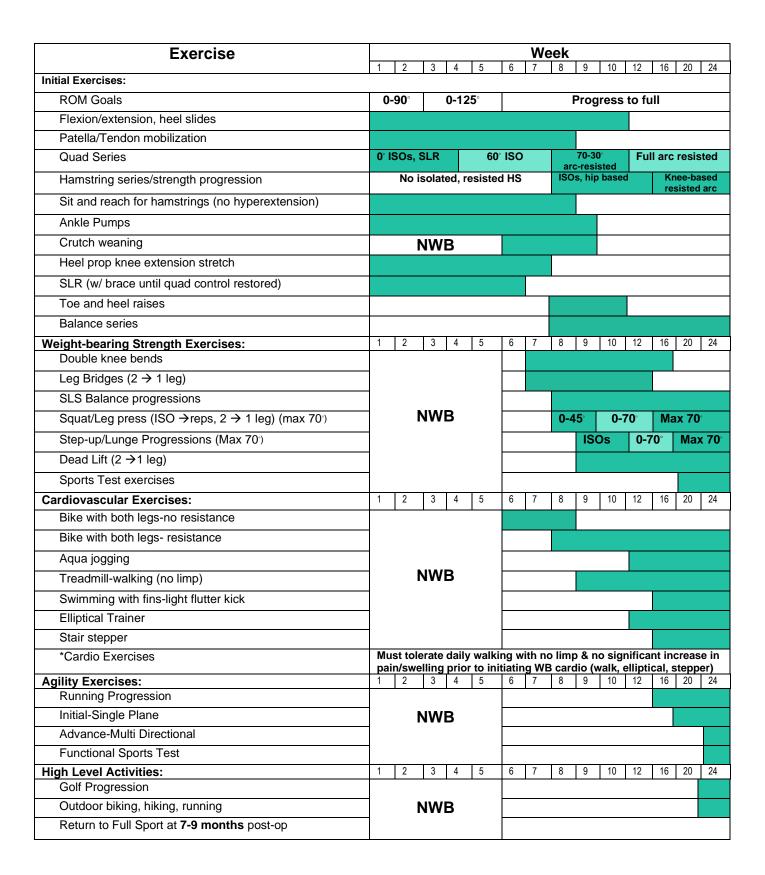
Brace Settings

Locked straight x 6
weeks when
ambulating or
sleeping. Otherwise
open brace once

ROM Restrictions

PROM 0-90° beginning POD 1





Adapted from post-operative protocol created by Howard Head Physical Therapy, Jill Monson, PT, OCS and Jon Schoenecker, PT, OCS, CSCS



Quad Series:

- •Quad sets (5 sec hold) also quick contractions (NMES to supplement)
- Prone quad sets
- •SLR with no extension leg
- Progression of Quad Strengthening (WB exercises at 6 weeks)
- •LAQ in safe range -no added resistance to begin
- •Once weight bearing tandem stance TKE with 5 sec hold
- •Isometric wall sit
- •SLR with resistance
- Step up progression
- Squat progression
- •Leg press progression
- •Lunge progression

Hamstring Series:

- Hamstring stretching (supine/prone)
- •Hamstring set (heel dig)- contract hamstring with knee flexed pressing heel into the floor (5 sec hold)
- Hamstring curls
- Progress to resisted hamstring curl

Sport Test Exercises:

- •Goals: impact training and introduction of directional drills
- Double leg squat jumps
- Box jumps
- Speed skaters
- Double leg jumps for height and distance progress to single leg as tolerated
- •Blaze pod change of direction drills

Further Clarifications and Considerations

- •May begin to implement BFR as early as 1 week into post-op period
- •Functional Sports Test: Baseline completed at 7 months post-op with subsequent test at 9 months



Return to Running Criteria

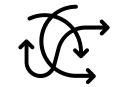
- Trace effusion, flexion within 5 degrees of contralateral side
- LSI on anterior reach Y balance test ≥ 90%
- LSI on quadriceps torque output on isometric measurement ≥ 75%
- •12" SL squat tolerance
- Able to walk > 1 mile with no limping or pain
- Able to "hop" with UE assist on operative leg 5 times without pain or compensation
- •SL balance with eyes closed 30 seconds without loss of balance



Return to Agility/Change of Direction Criteria

- Return to running criteria listed above met
- No effusion
- Full ROM
- •Quad LSI on isokinetic ≥85%
- Hamstring LSI on isokinetic ≥85%
- LSI on anterior reach Y-balance ≥ 95%
- SL hopping pain-free and effusion free





Return to Sport Criteria

- •In order to test must demonstrate full AROM, no pain, no/trace effusion, 5/5 strength, negative lachman and pivot shift, LSI ≥95% hamstring curl and leg press
- Quadricep strength ≥95% of contralateral side (< 2cm of atrophy)
- Able to perform single leg squat with correct form
- •LSI SL hop ≥95%
- •Y-Balance ≥95% (mean of 3 trials in anterior, posterolateral, posteromedial /100)
- Vertical jump test, single leg hop distance, and timed single leg hop over 20 -feet ≥90% of contralateral side

