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Meniscus Radial Repair

Post-Operative Rehabilitation Protocol

0-4 weeks

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

4-6 weeks

- Continue NWB status until 6 weeks with brace locked in 0° 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°

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°
- Leg press from 0-70°
- Proprioception exercises
- Begin stationary bike

12-16 weeks

- Progress strengthening exercises
- Single leg strengthening
- Begin jogging and progress to running
- Sports specific exercise
- Plyo Prep Screen prior to initiating running and/or jumping. Lower Body Assessment when initiating return to sport progression. Schedule via QR code email or spc@rushortho.com

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





Exercise	Week 1 2 3 4 5 6 7 8 9 10 12 16 20 2												
Initial Exercises:	1 2	J	4	J	1 0	,	0	9	10	12	10	20	24
ROM Goals	0-90°		0-12	25°				Pr	ogres	s to f	ull		
Flexion/extension, heel slides													
Patella/Tendon mobilization													
Quad Series	0° ISOs, SLR 60°				° ISO 70-30° arc-resisted				Full arc resisted				
Hamstring series/strength progression	No	No isolated, resisted									Knee-based		
Sit and reach for hamstrings (no hyperextension)											r	esisted	arc
Ankle Pumps													
Crutch weaning		NWE	₹										
Heel prop knee extension stretch			_										
SLR (w/ brace until quad control restored)													
Toe and heel raises													
Balance series													
Weight-bearing Strength Exercises:	1 2	3	4	5	6	7	8	9	10	12	16	20	24
Double knee bends	<u> </u>			1 ~	1	•		, ,					
Leg Bridges (2 → 1 leg)													
SLS Balance progressions													
Squat/Leg press (ISO →reps, 2 → 1 leg) (max 70°)		NWB					0-4	ļ5°	0-	70°	Max	x 70°	
Step-up/Lunge Progressions (Max 70°)								IS		0-7		Max	. 70°
Dead Lift (2 →1 leg)													
Sports Test exercises													
Cardiovascular Exercises:	1 2	3	4	5	6	7	8	9	10	12	16	20	24
Bike with both legs-no resistance												<u> </u>	
Bike with both legs- resistance													
Aqua jogging													
Treadmill-walking (no limp)		NWE	3										
Swimming with fins-light flutter kick													
Elliptical Trainer													
Stair stepper													
*Cardio Exercises	Must to												
Agility Exercises:	pain/sw	elling 3	prio 4	r to in	itiatir 6	ng Wi	3 car	dio ()	walk, €	elliption 12	al, st	epper 20) 24
Running Progression	1 1 2							J	10	12	10	20	24
Initial-Single Plane		NWE	3										
Advance-Multi Directional	\dashv		-										
Functional Sports Test													
High Level Activities:	1 2	3	4	5	6	7	8	9	10	12	16	20	24
Golf Progression													
Outdoor biking, hiking, running		NWB											
Return to Full Sport at 7-9 months post-op													



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

