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Bucket Handle Meniscus Repair

Post-Operative Rehabilitation Protocol

0-6 weeks

- NWB for 6 weeks
- Active/Passive ROM: 0-90°
- Patella mobilization
- SLR supine with brace locked at 0°
- Quad Sets with brace locked at 0°
- Heel Slides
- Ankle pumps

6-8 weeks

- Transition to WBAT with brace unlocked
- Discontinue crutches when gait is normalized and non-antalgic
- Discontinue brace once good quad control
- Wall sits to 90°

8-12 weeks

- WBAT with unloader brace
- Full ROM
- Progress with closed chain exercises
- Lunges from 0-70°
- Leg press 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 when initiating running and/or jumping. Schedule via QR code or email 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 good quad control

ROM Restrictions

Full PROM beginning POD 1





Exercise	Week 1 2 3 4 5 6 7 8 9 10 12 16 20 24										
Initial Exercises:			. 0		<u> </u>					1 20 1 21	
ROM Goals	0-90°	0-90° 0-125°			Progress to full						
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			d HS		ISOs, hip based		Knee-based resisted arc		
Sit and reach for hamstrings (no hyperextension)										resisted arc	
Ankle Pumps											
Crutch weaning		NWB									
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	4 5	6	7	8	9	10	12 16	20 24	
Double knee bends			•								
Leg Bridges (2 → 1 leg)											
SLS Balance progressions		NWB									
Squat/Leg press (ISO →reps, 2 → 1 leg) (max 70°)						0-4	5 °	0-7	0° M	ax 70°	
Step-up/Lunge Progressions (Max 70')		†					ISO)s	0-70°	Max 70	
Dead Lift (2 →1 leg)											
Sports Test exercises											
Cardiovascular Exercises:	1 2	3 4	4 5	6	7	8	9	10	12 16	20 24	
Bike with both legs-no resistance											
Bike with both legs- resistance											
Aqua jogging											
Treadmill-walking (no limp)		NWB									
Swimming with fins-light flutter kick											
Elliptical Trainer											
Stair stepper											
*Cardio Exercises										ncrease in stepper)	
Agility Exercises:	1 2		4 5	6	7	8	9	10	12 16		
Running Progression			•		•	•			•		
Initial-Single Plane		NWB									
Advance-Multi Directional											
Functional Sports Test											
High Level Activities:	1 2	3 4	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

