

Hip Labrum and FAI Post-Surgical Rehabilitation Guideline

This rehabilitation program is designed to return the individual to their activities as quickly and safely as possible. It is designed for rehabilitation following Labral hip repair with FAI. Modifications to this guideline may be necessary dependent on physician specific instruction, location of repair, concomitant injuries or procedures performed. This evidence-based Labral hip fixation with FAI component is criterion-based; time frames and visits in each phase will vary depending on many factors- including patient demographics, goals, and individual progress. This guideline is designed to progress the individual through rehabilitation to full sport/ activity participation. The therapist may modify the program appropriately depending on the individual's goals for activity following Hip Labrum and FAI.

This guideline is intended to provide the treating clinician a frame of reference for rehabilitation. It is not intended to substitute clinical judgment regarding the patient's post-operative care based on exam/treatment findings, individual progress, and/or the presence of concomitant procedures or post-operative complications. If the clinician should have questions regarding post-operative progression, they should contact the referring physician.

General Guidelines/ Precautions:

- ROM Restrictions and Expectations: Flexion -0°–90°x 2 weeks and gradually progress avoid "pinching" Extension- avoid passive hyper extensionx3 weeks External Rotation- ER to 20° x 2weeks Internal Rotation- NO limitations Abduction-0° to 45° by 2 weeks
- Avoid "pinchy" pain with all PROM
- NO straight leg raise in flexion
- Weight bearing Restrictions:

Partial WB x 2 weeks-20# foot flat WB, PWB x 3 weeks if older than 50 or osteopenic bone

Hip plications to the capsule- PWB x 4-6 weeks

Microfracture –typically PWB X 6 weeks

• Return to sport timeframe expected approximately 16 weeks

• Criteria to be met for return to sport:

Scoring 90% or greater with involved to uninvolved-

- single leg hop for distance
- single leg triple hop for distance
- Y balance testing; anterior, posterior/medial, posterior/lateral
- Proper hip strategy and hip stability with step down, drop jump, lateral shuffle, deceleration, single leg triple hop, and side cut Isokinetic testing of Quad, Ham, Hip Abduction (isometric) and Hip Extension (Isometric)

Goals/ Milestones for Progression Phase Suggested Interventions Key considerations: Goals of Phase: Phase I WB status depending on what procedure was performed (hip 1.Protect soft tissue repair 2.Reduce joint inflammation plications, microfracture, etc.) Protective Phase 3.Control pain 0-2 weeks: Partial WB x 2 weeks-20# foot flat WB, PWB x 3 weeks if older than 50 Weeks 0-4 or osteopenic bone Criteria to Advance to Next Phase: Expected Visits: 1/week Hip plications to the capsule- PWB x 4-6 weeks 1. pain is controlled Microfracture –typically PWB X 6 weeks 2. Ability to ambulate with minimal antalgic gait without Gait Training with crutches crutches 3-4 weeks: Progress WB unless microfracture (2>1>0) Initial ROM considerations: 0-2 weeks: Flexion -0°–90°x 2 weeks Extension- avoid passive hyperextension x 3 weeks External Rotation- ER to 20° x 2weeks Internal Rotation- NO limitations Abduction-0° to 45° by 2 weeks Quadruped Rocking Stationary Bike: One hour/day total in segment times as desired x 4 weeks (remember 90° precaution for hip flexion first 2 weeks)

Hip Labrum and FAI Rehabilitation Guideline (0-16 weeks)

	PROM supine log rolling-caution with external rotation Stretch hip flexors (start prone over pillow, removing pillow as tolerated) 3-4 weeks:	
	Progress ER and hip flexion, avoid "pinching" Stool Botations for Hip ER/IB	
	bent knee fallouts (4weeks)	
	prone hip ER/ IR (4 weeks)	
	up to 4 weeks avoid hip rotation with hip flexion as this increases stress	
	on labral repair	
	Modalities as indicated:	
	Game ready to reduce pain/inflammation	
	Strength:	
	<u>0-2 weeks:</u>	
	pelvic tilts	
	Adduction, ER	
	AVOID SLR	
	Hip Isometrics-flexion	
	Hip Isotonics -extension (can be Prone), abduction, adduction, ER/IR	
	prone knee flexion/hamstring curls	
	supine bridges, double limb	
	Birddogs, quadruped hip extension	
	clam shells \rightarrow isometrics	
	Pelvic drops/hip hiking	
	side planks \rightarrow knees to full side lying	
	leg press, bilateral (week 4)	
	partial squats (1-2 sessions after leg press)	
		Goals of Phase:
Phase II	Key considerations:	1. Obtain full mobility of hip
Stability Phace	we status depending on what procedure was performed (hip	 Normalize gait pattern Gain function and independence in daily activities
Stubility Phase	plications, micromacture, etc.)	s. Gain function and independence in daily activities
Weeks 5-8	ROM:	4 NO Trendelenburg sign
	At 6 weeks stretching increased to include:	
Expected visits: 1-	Standing adduction	Criteria to Advance to Next Phase:
2X/week	Standing or supine iliotibial band	1. Tolerate strength progression

	Hip flexor/prone quadriceps	
	Hamstring	
	Prone rotations ER/IR	
	ER in FABRE position	
	Strength: lower resistance and higher repetitions	
	Elliptical	
	Prone planks	
	Double \rightarrow single leg bridges	
	Multi hip 4 way exercise (hip flexion, adduction, abduction, hip	
	extension)	
	Clam shells/side lying hip abduction, repetitions	
	Fire Hydrants, isometrics →reps, standing	
	Bilateral cable column rotations $ ightarrow$ single leg cable column (can	
	progress to foam or unstable surface.	
	lateral sidestepping, band at knees	
	step ups	
	forward step downs	
	lateral lunges	
	single leg squat start 1 week after lunges, start with supported \rightarrow skater	
	squats	
	suitcase carries	
	waiter carries	
Phase III	ROM:	Goals of Phase:
	Progress with end range stretching of hip flexor and rest of hip	1. Advanced strengthening and endurance to restore
Movement and Strength	structures	normal function in preparation for sport specific drills/
Phase		heavier work loads
	Exercise Suggestions:	2. Y Balance test (anterior, posterior/medial, and
Weeks 9-12	Continue with earlier strengthening	posterior/lateral 80% of uninvolved
	Rolling plank (side plank \rightarrow front plank \rightarrow opposite side plank)	3. Hip muscle testing 90% of uninvolved
Expected visits: 1x/week	Deadlifts double→single leg deadlifts	4. single plane to multi plane exercise
	Rotational lunges	5. progression from stable surface to unstable surface
	Light agility ladder drills toward end of phase- horizontal rather than	
	vertical movement pattern to begin with	
	Lateral shuffle	

Phase IV Advanced Movement and Impact Phase Weeks 13-16	Strength: Olympic lifts Progression to running program Progression to a higher intensity sport specific agility drills-i.e. bounding, drop jumps, squat jumps, box jumps, barrier jumps, triple hops, box hops, barrier hops, 180° jumps. Begin throwing (if appropriate) with focus on pelvic control.	Goals of Phase: Allowing safe and gentle sport specific agility drills to prepare for return to sport or work activities
Expected visits: 1x/week to 1x every other week		
Phase V Advanced strengthening and eccentric control phase Weeks :16+ Expected visits: 1	Suggested Treatments: Sport specific testing	 Suggested Criteria for Discharge: Limb similarity index of 90% or greater on functional hop tests single hop for distance, triple hop for distance, and Y balance testsa9anterior, posterior/medial, posterior/lateral 45/50 on Biomechanical functional assessment tests (if performed) No pain or complaints of instability with functional progression of sport specific skills normal stride symmetry with running

REFERENCES

1. Luke Spencer-Gardner, Joseph J. Eischen, Bruce A. Levy, Rafael J. Sierra William M. Engasser, Aaron J. Krych. A comprehensive five-phase rehabilitation programme after hip arthroscopy for femoroacetabular impingement. Knee Surg Sports Traumatol Arthrosc (2014) 22:848–859.

2. Kelly BT, Weiland DE, Schenker ML, Philippon MJ.Arthroscopic labral repair in the hip: surgical technique and review of the literature. *Arthroscopy*. 2005;21:1496-1504.

3. Kelly BT, Williams RJ, Philippon MJ. Hip arthroscopy: current indications, treatment options, and management issues. Amer J Sports Med. 2003;31:1020-1037.

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