HIP ARTHROSCOPY

(Post-Operative Protocol)

Prepared for Dr. J.N. Cakic

PLEASE NOTE!

This protocol is designed to serve as a guideline for clinicians and therapists. One should consider the pathology, extent of surgery and anticipated functional demands of each patient. Continual assessment is essential when considering patient progression. Should you have any queries or concerns, please consult with the surgeon or rehabilitation team.

Weight bearing and ROM Guidelines

Weight bearing and ROM Guidelines				
Surgery Type	Weeks	Weight Bearing	ROM	
Femoro-acetabular	0-4	Partial (2 crutches)	Active 60 – 70% of unaffected side	
Impingement	4-6	Partial to Full (1 crutch)	> 70% (to tolerance)	
(CAM / Pincer)	> 6	Full	Full	
Labral Repair	0-4	Partial (2 crutches)	Active 60 – 70% of unaffected side	
	4-6	Partial to Full (1 crutch)	> 70% (to tolerance)	
	> 6	Full	Full	
Debridement	0-4	Partial to Full (crutches)	Full (To tolerance)	
	> 4	Full	Full	
Microfracture / Decompression	0-6	Toe Touching (2 crutches)	Full (To tolerance)	
	6-12	Partial to Full (1 crutch)	Full	
	> 12	Full	Full	

STAGE 1 (\pm 4 - 6 weeks)

AIM:

Protected weight bearing stage, protect integrity of repaired tissue Restore range of movement within restrictions
Maintain muscle function, preventing inhibition
Allow tissue healing / repair

RESTRICTIONS/PRECAUTIONS:

Do not push through pain!

Maintain ROM restrictions (Flexion limited to 90° for 1st 3 weeks)

Maintain weight-bearing restrictions

Minimize active abduction for the first 2 weeks

Labral repairs are highly sensitive to active rotational activity

Day 1-14

The average in-hospital stay is one night

Your hospital-based physiotherapist will instruct a home-based exercise programme, teach crutch walking and educate the patient on comfortable sleep positions and daily activities

Patient will be discharged with a HOME exercise program (refer to end of protocol)

Commence outpatient treatment 7-10 days following surgery

Introduce stretching, core stabilization and correct GAIT patterning

Physiotherapy:

Passive and active hip mobilization

Restore normal gait pattern (as per weight bearing restrictions)

Patient education – including day-to-day daily activity

Soft tissue mobilization – hip, thigh and lumbar spine (include spinal mobilization)

Commence stretching (within ROM guidelines) - quadriceps, calves, hamstrings, adductors

Initiate core muscle exercises (bed, mat programme)

Commence gluteal activation (bed, mat programme)

Commence stationary cycling with NO resistance. Raise the seat to prevent hip flexion > 90°

2 - 6 Weeks

Continue with Day 1-14 physiotherapy

Continue / advance weight bearing & ROM (as per guidelines)

Continue isometrics as per home exercise programme (if required)

Introduce / progress CKC activity

Continue / advance gluteal exercises

NOTE: many of the short lever activities require large degrees of hip rotation; this may aggravate labral involvement. Long lever activities may decrease this excess rotational movement

Continue stretching

Commence deep tissue massage around the arthroscopy incisions from 4 weeks

Increase cycling activity (no interval training OR spinning)

Increase core stability exercises (may introduce Pilates ball – respect the limitations of the patient's function)

Introduce proprioception drills (refer to weight bearing guidelines)

Optional - Alter-G Anti-Gravity Treadmill@ may be introduced

Patient may start with swimming exercises 5 days after sutures removed and wounds are sealed:

- Use pool float device between the legs to eliminate kicking!
- No breaststroke!

CRITERIA TO PROGRESS TO STAGE 2:

Achieve 70% of full ROM

No pain during full ROM or with Stage 1 exercise

Full weight bearing

Proper muscle firing patterns

No compensatory GAIT patterning

Hip Stage 1-2 Screening \geq 5 points (refer to end of protocol)

STAGE 2 (\pm 6 - 12 weeks)

AIM:

Maintain full weight bearing Maintain / improve normal arthrokinematics / GAIT pattern Maintain ROM Increase muscle strength & improve proprioception Focus on core stability

RESTRICTIONS/PRECAUTIONS:

No ballistic or forced stretching No hopping Monitor hip flexor and adductor muscles for irritation / overload Minimize strengthening of hip adductors NB!! Check for "true anatomic" hip extension

Physiotherapy:

Continue hip, Lx Spine, SIJ mobilization
Continue / advance stretching (especially hip flexors)
Address fascial slings (if required)
Continue / advance gluteal exercises
Increase cycling activity (no interval training OR spinning)
Increase core stability exercises
Advance proprioception drills
Introduce gentle active hip rotation (minimal resistance) – Please AVOID any flare-ups
Patient may swim without pool float (No breaststroke!)

- Treading in water (i.e. water polo) is patient specific training – this is individually assessed

CRITERIA TO PROGRESS TO STAGE 3:

Full ROM (especially hip extension)

No pain during full ROM or with Stage 2 exercise

No GAIT pathology or compensatory patterning during GAIT

Adequate abdominal core and gluteal strength to perform Hip Stage 2 – 3 Screening

Hip Stage 2-3 Screening ≥ 7 points (refer to end of protocol)

STAGE 3 (± 8 - 16 weeks)

AIM:

Optimize neuromuscular control and proprioception

Restore muscle endurance and strength

Introduce cardiovascular endurance

Advanced core stability

Advance rotational hip activity (i.e. loading activity which requires internal / external hip rotation)

Restoration of cardiovascular fitness

COMPULSORY biokinetic assessment. The following to be performed:

- a) Postural assessment
- b) Functional movement screening
- c) Isokinetic strength test

Concentric vs. concentric – flexion / extension; abduction / adduction

Check - Range of movement - SLR, IR, ER, Thomas test

RESTRICTIONS/PRECAUTIONS:

No axial loading prior to full biokinetic assessment

No contact activities

Avoid hip flexors / capsule inflammation with increase of activity level

Physiotherapy:

As required – soft tissue treatment, joint mobilization / correction

Monitor exercises and activity level

Introduce lunges exercises

Introduce side-to-side drills (*only* if no compensatory movement patterns present)

Advanced neuromuscular and proprioceptive training

CRITERIA FOR PROGRESSION TO STAGE 4:

Maintenance of full and pain free ROM

Hip strength > 70% of uninvolved side

Hip Stage 3-4 Screening ≥ 7 points (refer to end of protocol)

STAGE 4 (\pm 14 weeks - 6 months)

AIM:

Biokinetics to monitor and assess return to sport activities Continue to restore muscle strength and cardiovascular endurance Maintain and advance core and gluteal strength

COMPULSORY repeat biokinetic assessment. The following to be performed:

- a) Postural assessment
- b) Functional movement screening
- c) Isokinetic strength test Concentric vs. concentric – flexion / extension; abduction / adduction

Sport specific training programme

Return to functional / sporting drills once > 85% of strength of uninvolved leg is achieved and movement patterns are normal

DOCTOR FOLLOW UP:	➤ 6 weeks post op – and by member of physiotherapy rehabilitation team
	➤ 3 months post op – and by member of physiotherapy rehabilitation team. If progress permits – 1 st biokinetic assessment (including isokinetic evaluation)
	➤ 6 months post op, with 2 nd biokinetic assessment (including isokinetic evaluation)
	> 9 months and / or 1 year post op