Hip Arthroscopy Rehab Protocol

General Guidelines:

- Progression through therapy phases is painand function-dependent, not time-dependent.
 Pushing the rehabilitation too quickly may aggravate the hip and delay recovery
- Early post-operative goals include reducing post-operative pain, swelling and inflammation while avoiding stiffness and improving motion
- Late post-operative goals include restoring motion and strength, normalizing gait, and conditioning
- Ultimate goal is to return to prior or desired level of activity after eradicating the structural or mechanical problem responsible for symptoms

Precautions:

- Crutches and partial weight-bearing to protect repair for 4 to 6 weeks depending on procedure
 - avoid excessive external rotation and flexion (stresses repair)
 - o avoid early active hip flexion that can lead to hip flexor tendonitis
 - avoid advancing too rapidly through therapy protocol to prevent flare-ups
- No driving until permission from surgeon (usually around 4 weeks)
- Medications help reduce risk of abnormal bone formation (heterotopic ossification) and blood clot (DVT or deep venous thrombosis)

Phase I (weeks 0 to 3)

- Goals:
 - o Recover from surgery
 - Protect the repair
 - Reduce post-operative pain, swelling, and inflammation
 - Crutch training to unload hip while normalizing gait
- Protected weight-bearing (50% of body weight)
 - Use two crutches to limit weight while stepping on the operative leg

KANDILNOTES

- Maintain foot flat on the ground (reduces force in the hip joint)
- Hip joint mobilization
- Manual therapy
- Scar massage
- Modalities to reduce swelling and inflammation
- Hip passive range of motion within post-op restrictions
 - No external rotation > neutral
 - No hip flexion > 90 degrees
- Muscle activation
 - hip isometrics (glut, quad, and hamstring sets, abductor and adductor isometrics)
 - heel slides (active-assisted range of motion)
 - o pelvic tilts
 - o double legged supine bridge
 - o seated knee extension
 - prone knee flexion
- standing exercises (keep knee straight)
 - abduction and adduction without resistance
 - flexion and extension without resistance
 - o double heel rises
- standard stationary bike with high seat (to prevent hip flexion >90) with no resistance
- criteria to progress to phase II
 - o minimal pain with phase I exercises
 - minimal limitations in range of motion (90 degrees of hip flexion with minimal pain)
 - o normalized heel to toe gait with two crutches and partial weightbearing

Phase II (weeks 4 to 6)

- Goals:
 - Protect repair
 - o increase range of motion
 - o transition from crutches
 - o normalize gait
 - o increase muscle strength
- transition from crutches at the 4 week mark





Hip Arthroscopy Rehab Protocol

- start with single crutch on opposite side from surgery, unload the operative hip during gait
- may transition to no crutches once comfortable and no significant gait deviations
- may continue to need crutches when planning to walk a distance or be on your feet for a longer time
- progress with hip range of motion
 - o no external rotation > 20 degrees o no hip flexion > 105 degrees
- manual therapy
 - massage portal sites
 - hip joint mobilizations
 - o deep tissue mobs
 - pelvic and lumbar spine joint mobilizations
 - desensitize irritable nerve distributions
- muscle activation
 - progress core strengthening o hip strengthening
 - hip flexor activation (careful with active / resisted hip flexion to prevent inflammation)
 - o clam shells
 - o single-leg bridges
 - o leg presses (minimal resistance)
 - o weight-shifting
- standing exercises
 - abduction and adduction with low resistance
 - flexion and extension with low resistance
- standard stationary bike increase duration and resistance as tolerated
- pool therapy recommended after portals healed
 - decrease depth with each successive week (start at chest deep and progress to waist deep)
 - 4-direction walking
 - step-ups
- criteria to progress to phase III
 - o minimal pain with phase II exercises
 - 105 degrees of hip flexion, 20 degrees of external rotation with minimal pain
 - o Pain free/ normal gait pattern

KANDILNOTES

- hip flexion strength >60% of opposite side
- hip abduction/adduction strength, internal/external rotation strength
 >70% opposite side

Phase III (weeks 7 to 10)

- Goals:
 - Protect repair
 - o normalize motion and strength
 - o normalize gait
 - o improve endurance and conditioning
 - o improve neuromuscular control, balance, and proprioception
- Normalize hip range of motion no restrictions
 - o symmetry with unaffected side
- Manual therapy
 - Massage portal sites
 - Hip joint mobs
 - Deep tissue mobs
- hip strengthening
 - increase resistance with active exercises
 - clamshells with theraband
 - sidelying planks
 - o physio ball hamstring
 - o side-stepping with resistance
 - o lunges
- neuromuscular training
 - o core stabilization
 - o single leg balance
 - sidesteps over cups
 - o step-ups with eccentric lowering
- standard stationary bike continue to increase duration and resistance, lower seat to allow increasing hip flexion
- elliptical machine with minimal resistance
- may use treadmill walking program
- continue pool therapy, increase speed and duration, decrease depth
- criteria to progress to phase IV
 - o symmetrical range of motion
 - hip flexion strength >70% of opposite side
 - hip abduction/adduction strength, internal/external rotation strength
 >80% opposite side





Hip Arthroscopy Rehab Protocol



 cardiovascular fitness returning to pre-operative level

Phase IV (weeks 11 to 14)

- Goals:
 - o normalize function
 - o sports specific training
 - o Prepare return to activity
- continue phase III exercises with progressive increase in intensity
- manual therapy as indicated
- core strengthening
- advance proprioceptive training
- start introducing low-impact plyometrics
- increase resistance and duration on bike and elliptical
- pool running
- swimming as tolerated
- sport-specific agility drills

Final phase (14 weeks & beyond)

- traditional weight-training
- increased intensity of plyometrics
- start running progression
- sport specific drills without pain
- cardiovascular fitness at or better than preoperative level

Return to sports / activities

- full pain-free range of motion symmetrical to opposite side
- symmetrical hip strength
- stable pelvis
- ability to perform sport-specific drills at full speed without pain



