



Acetabuloplasty

This protocol should be used as a guideline for progression and should be tailored to the needs of the individual patient.

- **Weight bearing as tolerated, use crutches to normalize gait.**
 - Crutches are usually discontinued at 5-7 days, once gait is normalized.
- **Strict impact precautions unnecessary, but functional progression may still be protracted because of severity of associated damage.**
 - May still need to be delayed for 12 weeks to minimize exacerbation of symptoms.
- **Always use pharmacologic prophylaxis against heterotopic ossification (unless contraindicated.)**
 - Quiz patient
 - Must initiate and maintain immediately postop

PHASE 1:

WEEK 1

Initial Exercise (*Weeks 1-3*)



Ankle pump



Glut sets



PHASE 1:

WEEK 1

Initial Exercises (*Weeks 1-3*)



Quad sets



Heel slides, active-assisted range of motion



Hamstring sets



Log rolling



Adductor isometrics



Pelvic tilt



PHASE 1: **WEEK 1**

Initial Exercises (*Weeks 1-3*)



Trunk rotation



Seated knee extensions



Double leg bridges



Prone on elbows



Weight shifts – sitting, supported, anterior/posterior, lateral



Prone knee flexion



PHASE 1:

WEEK 1

Initial Exercises (*Weeks 1-3*)



Standing abduction without resistance



Standing flexion without resistance



Standing adduction without resistance

Other Exercises Week 1

- Seated heel lifts
- Standard stationary bike without resistance at 3 days post-op (10 min. if tolerated)
- Upper body ergometer, upper body strengthening



Standing extension without resistance



Pain dominant hip mobilization – grades I, II



PHASE 1:

WEEK 2

In Addition to Previous Exercises (*Weeks 1-3*)



Abduction isometrics



Seated physioball progression – knee extension



1/4 Mini squats



Hip flexion, IR/ER in pain-free range



Standing heel lifts



Theraband resistance on affected side –
Abduction (start very low resistance)



PHASE 1:

WEEK 2

In Addition to Previous Exercises (*Weeks 1-3*)



Theraband resistance on affected side –
Adduction (start very low resistance)



Superman



Theraband resistance on affected side – Flexion
(start very low resistance)

Other Exercises Week 2

- Wall mini-squats
- Physioball mini-squats with cocontraction
- Pool exercises (water walking, range of motion, march steps, lateral steps, backward walking, mini-squats, heel raises, hamstring and hip flexor stretches)



Theraband resistance on affected side –
Extension (start very low resistance)



PHASE 1: **WEEK 3**

In Addition to Previous Exercises (*Weeks 1-3*)



Stiffness dominant hip mobilization – grades III, IV



Clamshells (pain-free range)



Leg raise – Abduction



Double leg bridges to single leg bridges



Leg raise – Extension



PHASE 1: **WEEK 3**

In Addition to Previous Exercises (*Weeks 1-3*)



Shuttle leg press 90 degree hip flexion with co-contraction of adductors



Seated physioball progression – hip flexion



Dead bug



Forward walking over cups and hurdles (pause on affected limb), add ball toss while walking



Quadruped 4 point support, progress 3 point support, progress 2 point

Other Exercises Week 3

- Continue stationary bike with minimal resistance – 5 min. increase daily
- Active range of motion with gradual end range stretch within tolerance
- Leg raise – Adduction
- Single leg sports cord leg press (long sitting) limiting hip flexion



PHASE 1: **WEEK 3**

In Addition to Previous Exercises (*Weeks 1-3*)

Goals of Phase 1

- Restore range of motion
- Diminish pain and inflammation
- Prevent muscular inhibition
- Normalize gait

Criteria for progression to Phase 2

- Minimal pain with phase 1 exercises
- Minimal range of motion limitations
- Normalized gait without crutches

PHASE 2: **WEEKS 4-5**

Intermediate Exercises (*Weeks 4-6*)



Crunches



Standing theraband/pulley weight – Abduction



Bosu squats



Standing theraband/pulley weight – Adduction



PHASE 2: **WEEKS 4-5**

Intermediate Exercises (*Weeks 4-6*)



Standing theraband/pulley weight – Flexion



Clamshells with theraband



Standing theraband/pulley weight – Extension



Sidestepping with resistance (pause on affected limb), sports cord walking forward and backward (pause on affected limb)



Single leg balance – firm to soft surface

Other Exercises Weeks 4-5

- Gradually increase resistance with stationary bike
- Initiate elliptical machine
- Pool water exercises – flutterkick swimming, 4 way hip with water weights, step-ups



PHASE 2:

WEEK 6

Intermediate Exercises (*Weeks 4-6*)



Leg press (gradually increasing weight)



Superman on physioball – 2 point on physioball



Physioball hamstring exercises – hip lift, bent knee hip lift, curls, balance

Other Exercises Week 6

- Single leg balance – firm to soft surface with external perturbation (ball catch, sports specific/simulated ex.)
- Knee extensions, hamstring curls

Goals of Phase 2

- Restore pain-free range of motion
- Initiate proprioception exercises
- Progressively increase muscle strength and endurance

Criteria for progression to Phase 3

- Minimum pain with phase 2 exercises
- Single leg stance with level pelvis



PHASE 3:

WEEKS 7-8

Advanced Exercises (*Weeks 7-8*)



Step-ups with eccentric lowering



Side steps over cups/hurdles (with ball toss and external sports cord resistance), increase speed



Lunges progress from single plane to tri-planar, add medicine balls for resistance and rotation



Single leg body weight squats, increase external resistance, stand on soft surface



Theraband walking patterns – forward, sidestepping, carioca, monster steps, backward, ½ circles forward/backward – 25 yds. Start band at knee height and progress to ankle height

Other Exercises Weeks 7-8

- Full squats
- Single stability ball bridges

Goals for Phase 3

- Restoration of muscular endurance/strength
- Restoration of cardiovascular endurance
- Optimize neuromuscular control/balance/proprioception



PHASE 3:

WEEKS 7-8

Advanced Exercises (*Weeks 7-8*)

Criteria for Progression to Phase 4

- Single leg mini-squat with level pelvis
- Cardiovascular fitness equal to preinjury level
- Demonstration of initial agility drills with proper body mechanics

PHASE 4:

WEEKS 9-11

Sports specific training rehab clinic based progression



Single leg pick-ups, add soft surface

Other Exercises Weeks 9-11

- All phase 3 exercises
- Pool running (progress from chest deep to waist deep), treadmill jogging
- Step drills, quick feet step-ups (4-6 inch box) forward, lateral, carioca
- Plyometrics, double leg and single leg shuttle jumps
- Theraband walking patterns 1 rep of six exercises x 50yds, progress to band at knee height and ankle height

PHASE 4:

WEEKS 12 & BEYOND

Sports specific training rehab clinic based progression

Other Exercises Weeks 12 & Beyond

- Running progression
- Sport specific drills
- Traditional weight training

Criteria for full return to competition

- Full range of motion
- Hip strength equal to uninvolved side, single leg pick-up with level pelvis
- Ability to perform sport-specific drills at full speed without pain
- Completion of functional sports test