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Rehabilitation after Trochanteric Osteotomy

General Guidelines:

- Normalize gait pattern with brace and crutches
- Weight-bearing: PWB 20 lbs for 6 weeks
- Continuous Passive Motion Machine
 - 4 hours/day or 2 hours if on bike

Rehabilitation Goals:

- Seen post-op Day 1
- Seen 1x/week for 6 weeks
- Seen 2x/week for 6 weeks
- Seen 2-3x/week for 6 weeks

Precautions

- Weight-bearing
- Manage scarring around incision
- No strengthening of abductors and Internal rotators (6 weeks)
- Range of motion focusing on flexion
 - No active abduction, IR, or passive ER greater than 20 degrees (6 weeks)

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Guidelines:

- **Weeks 0-4**

- CPM for 4 hours/day
- Bike for 20 minutes/day (can be 2x/day)
- Scar massage
- Hip PROM
 - Hip flexion to 90 degrees (first 2 wks then as tolerated), abduction as tolerated
 - No active abduction, IR, passive ER greater than 20 deg, or passive adduction (6 weeks)
- Quadruped rocking for hip flexion
- Gait training PWB with assistive device
- Hip isometrics -
 - Extension, adduction, ER at 2 weeks
- Hamstring/Quad isotonic
- Pelvic tilts
- NMES to quads with SAQ
- Log rolling for rotation
- Modalities

- **Weeks 4-6**

- Continue with previous therex
- Gait training PWB with assistive device
 - 20 pounds through 5 weeks then progress over week 6 to 50 % without pain

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- Progress with passive hip flexion as tolerated
- Supine bridges
- Isotonic adduction
- Progress core strengthening
- Progress ROM
 - Stool rotations for ER and IR as tolerated
- Progress with hip strengthening
 - Start isometric sub max pain free hip flexion(4-6 wks)
 - Quadriceps strengthening
- Scar massage
- Aqua therapy in chest deep water
- **Weeks 6-8**
 - Continue with previous therex
 - Gait training: increase WBing as per MD
 - Progress with ROM
 - Passive hip ER/IR
 - Standing on BAPS for ER and IR
 - Progress core strengthening
- **Weeks 8-10**
 - Continue previous therex
 - Progressive hip ROM

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- Progress strengthening LE
 - Hip isometrics → isotonics
 - Leg press (bilateral LE) limit ROM (no flexion beyond 90)
 - Isokinetics: knee flexion/extension
- Progress core strengthening
- Begin proprioception/balance
 - Balance board and single leg stance
- Bilateral cable column rotations
- Elliptical
- **Weeks 10-12**
 - Continue with previous therex
 - Progressive hip ROM
 - Progressive LE and core strengthening
 - Hip PREs and hip machine
 - Unilateral Leg press
 - Unilateral cable column rotations
 - Hip Hiking
 - Step downs
 - Hip flexor, glute/piriformis, and It-band Stretching – manual and self
 - Progress balance and proprioception
 - Bilateral → Unilateral → foam → dynadisc

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- Side stepping with theraband
- Hip hiking on stairmaster (week 12)
- Treadmill side stepping from level surface holding on progressing to inclines

- **Weeks 12 +**
 - Progressive hip ROM and stretching
 - Progressive LE and core strengthening
 - Endurance activities around the hip
 - Dynamic balance activities
 - Treadmill running program
 - Sport specific agility drills and plyometrics

- **4-8 months Re-Evaluate (Criteria for discharge)**
 - Hip Outcome Score
 - Pain free or at least a manageable level of discomfort
 - MMT within 10 percent of uninvolved LE
 - Single leg cross-over triple hop for distance:
 - Score of less than 85% is considered abnormal for male and female
 - Step down test