

# Center for Orthopedics and Plastic Surgery

# ARTHROSCOPIC/OPEN GLUTEUS MEDIUS REPAIR PHYSICAL THERAPY PROTOCOL

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Please use appropriate clinical judgment during all exercise progressions. The specific exercises given in this protocol are provided for guidance, but it is important to use clinical judgment when determining appropriate progressions within the physician provided WBing and ROM restrictions. Any questions/concerns, please do not hesitate to contact Dr. Kerns' office at 906-225-1321.

**OPERATIVE DIAGNOSIS:** Please <u>ALWAYS</u> refer to the operative note for a comprehensive description of the procedure performed. There is a separate protocol for:

- Labral repair
- Labral repair with capsular repair/closure
- Labral repair with capsular plication
- Gluteus medius/minimus repair: If the patient also had a gluteus medius and/or minimus repair, disregard the labral repair protocol and follow the gluteus medius protocol, as it is more restrictive.

\*\* If the patient had a microfracture, the patient will be non-WBing for the first <u>6 weeks</u> (<u>not allowed</u> to do foot flat weight bearing at 2 weeks post-op).

**WEIGHTBEARING:** The patient will begin FFWB as directed below at 2 weeks post-op through week 5. At 5 weeks post-op, patient will begin PWB progressing to ~50% bodyweight by week's end with bilateral crutches or walker. At week 6, patient may progress to WBAT with continued use of AD (bilateral crutches or walker). Pt may progress to unilateral crutch/cane at week 7 if pain levels are low and there is minimal to no gait deviation.

• **Please Note:** Foot flat weight bearing should be done at 2 weeks postoperatively to avoid anterior hip irritation caused by holding the hip in flexion, <u>but it is important to note that there is still no weight bearing until 5 weeks post-op</u>. The patient should be instructed to set his/her foot on the floor without putting weight on it. The script will state if weight bearing restrictions vary from this.

# Phase I – Immediate Rehabilitation (weeks 1-5)

Begin therapy post-operative day #3-5

# Goals:

- Protection of repaired tissue
- Restore ROM within guidelines.
- Prevent muscular inhibition and gait abnormalities
- Diminish pain and inflammation
- Teach caregiver to perform circumduction 1x/day as appropriate

# **Precautions:**

- \*\*DO NOT AGGRESSIVELY PUSH THROUGH PAIN/PINCHING
- \*\*Progress cautiously with signs of hip flexor tendonitis, trochanteric bursitis, and synovitis

### **PROM Restrictions:**

- Flexion: Gradually increase hip flexion past 90 degrees AFTER 3 weeks
- ER: 0 degrees x 6 weeks
- Adduction: 0 degrees x 6 weeks
- Extension: 0 degrees x 4 weeks
- Abduction: 25-30 degrees x 3 weeks, then progress as tolerated
- IR: 0 degrees x 4 weeks (once started: do gently, keep pain-free)
- After 6 weeks ROM as tolerated

# **Initial Exam Suggestions:**

- Measure **NON-OP Hip**:
  - Seated AROM hip IR, ER; supine AROM hip flexion; supine PROM hip flexion, IR, ER
- Measure **OP-Hip**:
  - PROM supine hip flexion
- Manual Treatment: long axis traction with circumduction (for circulating synovial fluid and, therefore, cartilage health), long axis traction with gentle PROM abduction, PROM flexion in PAIN/PINCH FREE ranges
- HEP given at initial evaluation: hamstring stretch, single knee to chest, quad sets, ankle pumps, glut sets at 25% effort

# **Weeks 1-3:**

• **PROM** to hip within ROM guidelines – avoid pain/pinch: long axis traction with circumduction, long axis traction with gentle abduction, PROM flexion

- **Exercises**: hamstring stretch, single knee to chest, prone quad stretch, quad sets, ankle pumps, glut sets at 25% effort, transverse abdominal activation, hip adduction isometrics
- Consider adding stationary bike without resistance at 3 weeks, maximizing seat height to avoid psoas irritation
- **Manual Considerations:** scar massage, STM/MFR to: iliopsoas TFL, ITB, psoas, iliacus, hip adductors, quadratus lumborum, paraspinals. Avoid pressure to the gluteus medius tendon.
- Modalities for pain control and swelling as appropriate

# **Weeks 4-5:**

- Continue with previous exercises and manual techniques
- **PROM:** Add IR and extension at 4 weeks post-op. Consider manual hip flexor stretching (gentle, no pain). Continue to progress flexion to full range (gentle, no pain).
- **Exercises:** As tolerated, add an off edge of table hip flexor stretch (provide assistance to get in/out of stretch as needed to minimize pain); sub-max, pain-free hip flexion avoid hip flexor tendonitis; quad and hamstring isotonic exercises
  - WEEK 4: Sub-max hip abduction isometrics in minimal abduction (feet shoulder width apart) in varying degrees of hip flexion: 1) supine with legs extended (avoid ER)
     2) legs over a bolster
     3) hooklying
- **Gait training:** WEEK 5, begin PWB with maximum of 50% bodyweight with bilateral crutches or walker. Be conscious of amount of activation of gluteus medius during the gait cycle with regards to fatigue and pain levels.

# Phase II - Intermediate Rehabilitation (weeks 6-12)

# **Criteria for progression to Phase II:**

- Pain levels are low with minimal muscular irritation
- ROM is progressing at an appropriate rate
- If there are concerns regarding a patient's progress and you feel they are not yet appropriate to begin PWB with bilateral AD at 5 weeks, please inform Dr. Kerns and hold on WBing progression until their follow-up appointment

# Goals:

- Protection of repaired tissue
- Restore full hip ROM \*\*ROM must come before strengthening\*\*
- Restore normal gait pattern with goal of discharging AD by approximately 8-10 weeks
- Progressive strengthening of the hip, pelvis and lower extremities with focus on functional strengthening for ADL performance.

# **Precautions:**

- Progress to WBAT at 6 weeks with walker or bilateral AD if pain levels are low and there is minimal gait deviation. If clinically appropriate, the patient may progress to ambulation with unilateral AD at 7 weeks postoperatively.
- Discontinue Hip Brace at 6 weeks
- No forced/aggressive stretching of any muscles
- Avoid inflammation of hip flexor, adductor, abductor, and piriformis

# Weeks 6-12:

- At 6 weeks post-op, initiate ER PROM. Continue PROM in all planes to tolerance as needed. Continue phase I stretches to maintain ROM/flexibility throughout strengthening, as patients will often tighten as they gain strength.
- At 6 weeks post-op, add prone IR/ER and BKFO stretches to patient tolerance.
- Progress to FWB with minimal pain and minimal gait deviations prior to initiating full weight bearing strengthening. Begin with bilateral lower extremity strength exercises prior to unilateral.
- Stationary biking: increase resistance as tolerated. Elliptical can be initiated at week 10 for patients with very low pain levels who are no longer challenged by the bike.
- Initial strengthening: Progress into weight bearing exercises as tolerated with focus on strengthening supporting musculature with limited gluteus medius involvement. Consider: core stabilization, hamstring curls, LAQ, bridges, shallow mini-squatting, step ups, standing hip abduction/extension with slow progressions of gluteus medius activation.
- Progress strengthening and proprioception exercises as tolerated to: clam shells, single leg balance, lateral step ups, non-resisted sidesteps, eccentric tap downs, with caution regarding cumulative activity of gluteus medius. S/L hip abduction can be added no sooner than 10 weeks postop due to the intensity of gluteal activation this exercise involves.

\*\* Throughout phase II: if patient experiences a flare up: focus on ROM, stretching, manual therapy, transverse abs, gluteal firing patterns, and continue with non-painful strengthening as tolerated. Do not push through pain\*\*

# Phase III - Advanced Rehabilitation

# Weeks 12-16

- Criteria for progression to this level
  - o Full ROM
  - o Pain free, normal gait pattern
  - Hip flexor and glut med strength 4/5 or better
  - Hip add, ext and IR/ER strength of 4+/5 or better

# • Exercises:

- Maintain all ROM and flexibility of all muscle groups with self-stretching/home program
- Progress core, hip, LE strength and endurance. Focus on functional strength gains at this phase.
- o Increase gluteus medius strengthening
- o Resisted side steps, lateral movements
- o Wall squats
- Lunges (multi-angle)
- o Advanced single leg balance/core; deadlift, pelvic drop
- Side bridge/plank

# **PRECAUTIONS**

- Time frames for strengthening progressions are approximate and will vary from individual to individual.
- No contact activities until released by MD/DO
- No impact activities until released by MD/DO