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NOTE: If done concurrently with a cartilage restoration procedure (OCA, DeNovo, MACI), please defer to that protocol for differences.

PHASE 0: Pre- operative goals (i.e. Pre-hab)

- Normal Gait
- AROM 0-120 degrees
- Strength: 20 SLR with no lag.
- Minimal Effusion
- Patient Education on Post op exercises with a stress on compliance and importance
- Education on ambulation with crutches and safe stair use
- Wound care instructions
 - Keep tegederm clean and dry, no showering until 48hrs post-op then remove ACE, No submerging (bath, hot-tub, lake, river, ocean) for 6 weeks post op. Formal instructions will be listed in operative note and packet.

Educated in follow-up (also provided in packet): 10-14 days post op, 6 weeks, 3 months, 6 months, 9 months, 1 year, 2 years, 5 years.

PHASE I (Weeks 0 – 2): Period of protection, decrease edema, activate quadriceps

- Weightbearing: Heel-touch in brace locked in extension
- Hinged Knee Brace: Locked in full extension for ambulation and sleeping (remove for PT)
- Range of Motion: AROM/AAROM/PROM with therapist; goal of 90°
- Therapeutic Exercises: calf pumps, guad sets, heel slides 0-90°, SLR in brace locked in full extension
- Modalities: Per therapist, including electrical stimulation, ultrasound, heat (before), ice (after)

Phase II (Weeks 2-6)

- Weightbearing: Heel-touch in brace
- Hinged Knee Brace: Unlocked 0-90°, off at night; discontinue completely at week 6 if good quad control
- Range of Motion: Progress to full, painless AROM
- Therapeutic Exercises: Advance Phase I, progress non-weight bearing flexibility, begin floor-based core/glute exercises; straight-leg raises with brace in full extension until quad strength prevents extension lag
- Modalities: Per therapist, including electrical stimulation, ultrasound, heat (before), ice (after)

Phase III (Weeks 6 – 8)

- Weightbearing: Advance 25% weekly until full WB with normalized gait pattern
 - Range of Motion: Full
- Therapeutic Exercises: Advance Phase II, begin closed chain exercises (wall sits, shuttle, mini-squats, toeraises), begin stationary bike
- Modalities: Per therapist, including electrical stimulation, ultrasound, heat (before), ice (after)

Phase IV (Weeks 8 – 16)

- Advance Phase III exercises; focus on core/glutes; progress flexibility and strengthening
- Add elliptical at 12 weeks
- Swimming allowed at 12 weeks

Phase V (Weeks 16 - 24): Gradual return to athletic activity

- Advance Phase IV exercises
- Return to sport-specific activity and impact when cleared by MD at 5 months postop