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University of Delaware

Rehab Practice Guidelines for: *Proximal Realignment Surgery*

Assumptions: Soft tissue healing for the proximal repair (4-6 weeks)

Primary surgery: Medial re-alignment of the VMO Secondary surgery (possible): Limited lateral release

Precautions: WBAT in immobilizer first 4 weeks No NMES over the VMO (Protect suture repair) Perform protected electrical stimulation program No restrictions on passive knee ROM

Expected # of visits: 20-36 visits

Treatment	Milestones
Protected Electrical Stimulation Program	Full active quadriceps contraction with
	superior patellar glide
Patella taped medially	Full passive knee extension
quad (Do not place stim over	WBAT in immobilizer (use crutches until safe without)
10 second on/50 second off 10-15 contractions	
Treat impairments Improve quadricep strength and control - active superior patellar glide	
Prevent lateral scarring Include ITB stretching in clinic and home Modalities for pain control of distal ITB/Lateral PF ligament	
	 Protected Electrical Stimulation Program Knee stabilized isometrically at 30 degree knee flexion Patella taped medially Electrodes over proximal and distal quad (Do not place stim over the VMO, go proximal) 10 second on/50 second off 10-15 contractions Treat impairments Improve quadricep strength and control - active superior patellar glide Prevent lateral scarring Include ITB stretching in clinic and home Modalities for pain control of distal

Weeks 2-6 Intermediate Post-op Phase In immobilizer or locked knee brace until week 4 for ambulation 2-3 times / week TOTAL VISITS 12-18	 Incision Site Desensitization (PRN) Restore patellar mobility (clinic and home program), active and passive superior glide If flexion ROM is a concern, can use a hinged knee brace, locked during ambulation Gait training: + quad lag need to be in immobilizer or locked knee brace and/or crutches - quad lag can DC the immobilizer 4-6 weeks: Begin closed chain activities: i.epartial wall squats 	Full knee extension and flexion to 90° by week 2 Knee flexion > 120° by week 6 SLR without quad lag by week 6 Ambulating without an immobilizer by week 6

Weeks 7-16 Late Post-Op Phase 1-3 times / week	Resistive quad exercise may progress to angles greater than 30-40 degrees of knee flexion	Full ROM Ambulating without a brace
TOTAL VISITS 20-36	NMES may progress to angles greater than 30°	Running progression initiated when: quadriceps index \geq 80%, ROM is
	No MVIC until 8 weeks	full and patient is ≥ 12 weeks post-op

Considerations:

Full functional return for ADL's expected in 3-4 months
 No Burst testing and Functional Hop testing until 16 weeks post-op
 Return to Sports expected in 4-6 months