



Rehabilitation Practice Guidelines for: Proximal Realignment Surgery

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

Primary surgery: Medial realignment of the VMO

Secondary surgeries (possible): Limited Lateral Release

Expected # of visits: 20-36

Precautions and Other Considerations	
Precautions	<ul style="list-style-type: none"> ▪ 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
Other Considerations	<ul style="list-style-type: none"> ▪ 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



Proximal Realignment Rehab Protocol

<u>Timeline</u>	<u>Treatment</u>	<u>Milestones</u>
<p><u>Week 1: Early Post-op Phase</u></p> <p>In immobilizer and using crutches for ambulation</p> <p>2-3x/week</p> <p>Total Visits: 2-3</p>	<ul style="list-style-type: none"> ▪ Protected Electrical Stimulation Program <ul style="list-style-type: none"> ○ Knee stabilized isometrically at 30-degree knee flexion ○ Patella taped medially ○ Electrodes over proximal and distal quad (Do not place electrodes over the VMO, place more proximal) <ul style="list-style-type: none"> ○ 10 sec. on/50 sec. off ○ 10 to 15 contractions ▪ Treat impairments <ul style="list-style-type: none"> ○ Improve quadriceps strength and control – active superior patellar glide ▪ Prevent lateral scarring <ul style="list-style-type: none"> ○ Include ITB stretching in clinic and home ○ Modalities for pain control of distal ITB/Lateral PF Ligament (PRN) 	<ul style="list-style-type: none"> ▪ Full active quadriceps contraction with superior patellar glide ▪ Full passive knee extension ▪ WBAT in immobilizer (use crutches until safe without)
<p><u>Weeks 2-6: Intermediate Post-op Phase</u></p> <p>In immobilizer or locked knee brace until week 4 for ambulation</p> <p>2-3x/week</p> <p>Total Visits: 12-18</p>	<ul style="list-style-type: none"> ▪ Restore patellar mobility (clinic and home program), active and passive superior glide ▪ Incision site Desensitization (PRN) ▪ If flexion ROM is a concern, can use a hinged brace, locked during ambulation ▪ Gait Training: <ul style="list-style-type: none"> ○ +quad lag needs 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.e. partial wall squats 	<ul style="list-style-type: none"> ▪ 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
<p><u>Week 7-16: Late Post-op Phase</u></p> <p>1-3x/week</p> <p>Total Visits: 20-36</p>	<ul style="list-style-type: none"> ▪ Resistive quad exercise may progress to angles greater than 30 – 40 degrees of knee flexion ▪ NMES may progress to angles greater than 30° <ul style="list-style-type: none"> ○ No MVIC until 8 weeks 	<ul style="list-style-type: none"> ▪ Full ROM ▪ Ambulation without a brace ▪ Running progression initiated when: quadriceps index ≥ 80%, ROM is full and patient is ≥ 12 weeks post-op