

JOSEPH D. LAMPLOT, M.D. ORTHOPAEDIC SURGERY & SPORTS MEDICINE

(847) 866-7846 | SPORTSMEDICINE@NORTHSHORE.ORG

21481 N. RAND RD, KILDEER, IL 60047 1535 ELLINWOOD AVE, DES PLAINES, IL 60016

Osteochondral Allograft/Mosaicplasty Rehabilitation Protocol

Date of Surgery:

Procedure(s) Performed:	Treatment Peremmendations	Emphacizo
Postoperative Phase 1 Weeks 0-6 Criteria for Advancement: -Normalized Gait pattern -ROM 0°-130° -SLR (supine) without extension lag -Normal patellar mobility Weightbearing: o TTWB w/ crutches weeks 1 o 50% WB weeks 3-4 o Progressive WBAT after 4 weeks Discharge assistive device by end of week 4 (AT PT DISCRETION)	structures as well LE stretching (Hip, hamstring, gastroc/soleus) ROM Goals (USE AS A GUIDELINE!!!) Week 2- 90° flexion Week 3- 105° flexion Week 4- 115° flexion Week 6- 130° flexion Uweek 6- 130° flexion SOFT TISSUE Quadriceps, Hamstring, gastroc/soleus soft tissue release Mobilization to superior patellar pouch and infra-patellar soft tissue structures to provide proper patellar mobility. STRENGTHENING Quadriceps re-education.	Emphasize Pain/swelling controlled ROM 0-130° Prevent quads inhibition Restore full passive extension Restore normal gait pattern Restore proximal strength (glutes/core) Normalize patellar mobility Independence in HEP

- Aquatic therapy (if available) when incisions are healed- week 4-6 Single leg pawing —> retrograde treadmill by week 4
- Initiate step-ups at week 4
 - o Start with 4" step, progress with adequate quad strength

<u>Phase</u> <u>Pro</u>	<u>recautions</u>	Treatment Recommendations	<u>Emphasize</u>
Postoperative Phase II Weeks 6-12 Criteria for Advancement: - Full pain-free ROM -Demonstrate Avo the the the the the the the con con acti acti con con con be be acti acti acti acti acti acti acti acti	oid pain with erapeutic ercises and notional tivities intinue to ntrol posterative swelling ace: Gradual eraning of patellar eveve STRE		 Gradual increase of ROM 0°→full Ascend/Descend 8" step with good control and without pain Gradual increase in functional activities

<u>Phase</u>	<u>Precautions</u>	Treatment Recommendations	<u>Emphasize</u>
Postoperative Phase III Weeks 12-18 Criteria for Advancement: -85% limb symmetry on Isokinetic testing -No pain, inflammation or swelling after activity	 Avoid pain with therapeutic exercises and functional activities Continue to control postoperative swell Progress with running ONLY in adequate quadicontrol and strength is press 	 Patient shoulder demonstrate full ROM without limitations STRENGTHENING Continue to progress with squat program o Add weight as needed Continue to progress with eccentric leg press Progress with TRX squats o Eccentric DL squats o SL squats focusing on control and technique Progress with interval biking for endurance Progress with Step-ups o Progress to 12-18" step 	 Return to normal ADLs 85% limb symmetry on Isokinetic testing Improve muscular strength and endurance
Postoperative Phase IV Weeks 18+ Criteria for Return to Sport: -Hop testing 90% limb symmetry -Isokinetic test > 85% limb symmetry -20min TM running pain free -Y-balance test 90% limb symmetry -Independent with gym strengthening and maintenance program	 Be cautious of patellofemoral overload with increased activ level Avoid pain with progression of sports specific activity or with running 	Strength Maintenance program 3-4 times/week o Bike/Eliptical lower resistance o Glute Activation exercises ity o Chair/Box Squats o Leg press o Multiplanar hip strengthening o Front/Side/Back lunges o SL RDL	■ No apprehension with sport specific movements ■ Maximize overall lower extremity strength and flexibility to meet demands of sport and activity ■ Hop testing ≥ 90% limb symmetry ■ Isokinetic test ≥ 85-90% limb symmetry

Protocol adapted from Riley J. Williams, MD postoperative osteochondral allograft/mosaicplasty guidelines

