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Weightbearing Femoral Condyle + Patellofemoral (No Osteotomy)

Autologous Chondrocyte Transplantation Stage 1 – Proliferative Phase (0-6 weeks)

Stage 1 – Proliferative Phase (0-6 weeks)	
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	<u>PRIMARY GOALS</u> DO NOT OVERLOAD GRAFT
	INCREASE TIBIAL-FEMORAL AND PATELLA-FEMORAL MOBILITY
	RESTORE QUADRICEPS CONTROL
BRACE	•Hinged knee brace with ambulation locked in full extension until good quad
	control/independent SLR achieved. May be out of brace for chair and CPM
	Hinged knee brace discontinued once independent SLR achieved
PRECAUTIONS	•Heel to toe TDWB with crutches
ROM	•Gentle AAROM/AROM flexion as tolerated. Only PROM extension allowed
	•CPM minimum 3 hours per day beginning at 40 degrees of flexion and progressing as tolerated
	•Leg dangle every hour, each day to regain flexion ROM. Begin at 90 degree leg dangle, and use nonoperative leg to assist with increased flexion
	◆Goal: Minimum 90 degrees flexion by 3 weeks, 110 degrees by 6 weeks, and full ROM by 12 weeks post-op
THEREX	•Quad sets, SLR with brace locked in extension, leg curls/heel slides, hip abduction/extension with ankle weights and/or band resistance as tolerated
	•Stationary bicycle with no resistance once 90 degrees knee flexion obtained (~3 weeks)
THERAPY	•Multi-directional patella mobilization immediately after surgery
	•Cryotherapy and ACE wrap for swelling and pain control
	•E-stim for VMO/quadriceps muscle re-education/biofeedback encouraged early after surgery
	•Standing resisted isometrics and closed-chain terminal knee extension (0-30 degree) with elastic band permitted at 3 weeks post-op
	•Massage/deep friction to hamstring insertions, suprapatellar quadriceps, medial/lateral gutters, and infrapatellar fat pad region 2 weeks after surgery
	•Pool therapy recommended at 2-3 weeks post-op to enhance motion

COMMENTS

- •Contact MD if ROM not achieved to within 20 degrees of goal
- •No resistance permitted with stationary biking until cleared by MD
- •NO leg presses/squats
- •NO active open-chain due to increased patellofemoral contact forces
- *Activity level should be modified if increased pain, catching, or swelling occurs

For Outpatient Physical Therapist:

2-3x week / 6 weeks