

## Patellar/Trochlear Autologous Chondrocyte Implantation with Anteromedialization Osteotomy (AMZ)

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Patient Name		Date of Surgery
Procedure: ☐ Right ☐ Left Knee ☐ Patellar ☐ Trochlear ACI with AMZ		
☐ Evaluate and Treat – no open chain or isokinetic exercises		
☐ Provide patient with home exercise program		
<ul> <li>Phase I (0-6 wks): Period of protection.</li> <li>Toe-Touch Weight bearing (20%) with brace and crutches. Hinged knee brace should be worn at all times except for PT and hygiene. During ambulation, brace should be locked in extension for weeks 0-4, then unlocked for 0-30° for weeks 4-6.</li> </ul>		
• ROM:		
<ul> <li>CPM 4-6 hrs/day (starting 24 hrs <u>after</u> surgery):</li> <li>0-30° only x 1st 3 weeks, then advance 5-10°/day as tolerated.</li> </ul>		
- Goal: full extension by week 1, flexion to 120° by week 6		
<ul> <li>Gentle passive ROM 0-30° x 1st 3 wks, then match CPI</li> </ul>		pine extension stretching with
pillow under foot and weight on distal thigh. No prone heel hangs.		
<ul> <li>Starting 1 week after surgery, let knee passively hang over table/bed to 90° three times per day for 5 minutes (each</li> </ul>		
time) to prevent stiffness. No active knee extension.		
• Strengthening: quad sets, co-contractions, isometric quad/hamstring strengthening in extension. No active extension.		
☐ Phase II (6-12 wks): Transition phase.		
Transition to full weight bearing, weaning from hinged knee brace once quad control (no limp and no extension lag on		
SLR). Full weight-bearing and D/C brace by week 8.		
ROM: D/C CPM and progress to full active and passive ROM; goal: full ROM by 8-10 weeks. Aggressive stretching at end-ranges  (FDOM: 1.1. A control of the stretching at end-ranges).		
<ul> <li>if FROM not achieved by 10 weeks.</li> <li>Strengthening: Continue prior exercises, adding in SLRs. Can begin partial wall sits and then advance to other closed-chain</li> </ul>		
strengthening (with knee bent no more than 40 degrees) once full weight-bearing.		
☐ Phase III (3-18 months): Maturation phase.		
ROM: Continue active and active-assisted ROM.		
• Strengthening: Progress closed-chain patellofemoral strengthening without limits. Begin treadmill walking at a slow pace and		
progress to balance/proprioception.  • Light plyometrics and jogging can be initiated at 4 months, starting with 2 minute walk/2 minute jog on level surface (no hills).		
<ul> <li>At 6 months: begin progressive running (still on hills) and sport-specific drills.</li> </ul>		
<ul> <li>High-impact activities (jumping, contact sports) allowed only after 9-12 months if pain free.</li> </ul>		
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Other:		6 10 1
<ul><li>☐ Modalities</li><li>☐ Heat before/after</li></ul>	☐ May participate in aquatherapy after week three, begin aquarunning week 6	
☐ Electrical Stimulation	☐ Ultrasound	
Electrical climatation	☐ Ice before/after exercise	
Frequency:x/week x	weeks	
By signing this referral, I certify that I have examined this patient		ly necessary.
This patient would would not benefit from social services.		
Physician Signature		Date
Printed Name		