

PCL RECONSTRUCTION REHABILITATION GUIDELINES



PCL RECONSTRUCTION



PRE SURGERY

Patients may be seen by the physiotherapist before surgery. During thesesessions the following should be considered:

- Information about the rehabilitation (discuss mutual expectations). Emphasize that knee rehabilitation is more than strength-training of the upper-leg muscles alone. The (neuromuscular) rehabilitation addresses the whole lower extremity, core stability and training of the kinetic chain.
- Decrease pain, swelling and inflammation.
- Achieve/maintain normal range of motion (ROM with a focus on goodpatellar mobility.
- Achieve/maintain normal gait pattern.
- Maintain muscle strength, prevent atrophy.
- Training of the first-days postoperative exercises (i.e. straight-legraising (SLR), static quadriceps, prone passive knee extension andgastro stretches). Emphasize the importance of full extension.
- Practice non-weight-bearing walking with crutches for the first 6 weeks postoperatively. Consider elbow crutch grip modifications toease pressure on hands e.g. 'oarsome' grips.

POST SURGERY

Precautions

- Immobiliser brace 3 days
- Jack Brace after 3 days 0-90 for 6 weeks then full range of movementas tolerated.
- Brace for 24 weeks at all times inc; sleep, rehab etc...
- Avoid isolated hamstring exercises for 12 weeks
- Avoid hyper-extension for 12 weeks
- Crutches TWB for 6 weeks

Phase I (0 – 6 Weeks)

- PRICE Control of pain and swelling
- Patella mobs
- Physiotherapist guided prone passive knee flexion
- Quadriceps activation quadriceps sets and SLR if no lag
- Gastrocnemius stretches
- Hip adduction / hip abduction
- Upper body and core strength as appropriate
- Unlock Jack Brace ROM (see brace instructions) as long as achieved good knee extension control as hyper-extension of the knee should be avoided until week 12

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Phase 2 (week 6 to week 12)

- Continue to wear Jack Brace at all times
- Progress weight bearing as tolerated and wean off elbow crutches asable use weight shifts, walking
 on the spot, pool walking to assist
- Gait re-education
- Full ROM supine and prone (carefully with flexion), wearing brace for exercises
- Double leg strength through range (no greater than 70°) e.g. squat, leg press, mini-deadlift, straight-knee bridging. All with emphasis onmuscular endurance development (3 sets x 20 reps)
- Stationary bike (zero resistance) when ROM > 115 flexion
- Progress to small step up for quadriceps strengthening
- Gastrocnemius and light hamstring stretches
- Proprioceptive exercises

Phase 3 (week 13 to week 18)

- Continue to wear Jack Brace at all times
- Avoid isolated hamstring until 16 weeks
- Progress loaded ROM past 70° with squat, leg press
- Progress proprioception/single-leg loaded exercises e.g. balance squats <70° initially (unaffected leg on step behind) avoid full kneeextension on return, leg press, mini-deadlift
- Single leg straight-knee bridges from week 16
- Progress bike intensity

Phase 4 (week 19 to week 24)

• Remain in Jack Brace for all activities

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- Continue to build strength and single leg endurance, graduallyprogressing emphasis to developing power inc; OKC and CKC
- Initiate light sport-specific drills towards end of this phase

Phase 5 (week 25 to week 36)

- Wean out of Jack Brace starting at week 24 if they are ready
- Maximising muscle endurance and strength OKC/CKC for quadriceps, hamstrings and calf
- Aim for balance and proprioception equivalent of unaffected leg.
- Straight line interval jogging progression, when able to jog for 20minutes progress to multi planar agility.
- Sports-specific drills: maximising neuromuscular control with emphasison jumping, agility training and sport-specific tasks. Variations in running, turning and cutting manoeuvres are allowed. Duration and speed to be increased and maximised

Contact us

To contact the Consultants' Secretaries, call Sulis Hospital on 01761 422222 or to contact the Physiotherapy team call 01761 422388.

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