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## ACL Reconstruction with Bone-Patellar Tendon-Bone (BTB) Allograft and All Inside Meniscal Repair Rehabilitation Protocol

|                                   | Weight-bearing                                    | Brace  | Range of Motion  | Exercises  |
|-----------------------------------|---|--|--|--|
| Phase 1<br>0-6 weeks              | Full in brace <sup>a</sup>                        | <b>0-2 week</b> : Locked in<br>full extension for<br>ambulation and<br>sleeping              | Passive 0-90° at<br>one week postop<br>visit, then progress<br>to full | Calf pumps, patellar mobilization,<br>quadriceps tightening sets and SLR <b>in</b><br><b>brace</b> . No weight-bearing motion.   |
|                                   |   | Off for exercises and  |  | Add side-lying hip and core, advance quad set and stretching <sup>a</sup>  |
|                                   |   | hygiene only<br><b>2-6 weeks</b> : Unlocked O-<br>90° for ambulation,<br>remove for sleeping |  | <b>In brace</b> : Addition of heel raises, total gym (closed chain), gait normalization, eccentric quads, eccentric hamstrings.  |
|                                   |   |  |  | Advance core work with hip, gluteal and core strengthening   |
|                                   |   |  |  | No weight-bearing with flexion >90°  |
| Phase 2<br>6-12 weeks             | Full,<br>progressing<br>to normal<br>gait pattern | Discontinue at 6 weeks<br>if quadriceps control is<br>adequate (no extension<br>lag)         | Gain full and<br>pain-free   | Begin toe raises, closed chain quads,<br>balance exercises, hamstring curls,<br>stationary bike, step-ups, front and side<br>planks, hip/glute/core                    |
| Phase 3<br>12-16 weeks            | Full with<br>normalized<br>gait pattern           | None   | Full   | Advance closed chain strengthening<br>Progress proprioception activities   |
|                                   |   |  |  | Begin stair climber, elliptical at 8 weeks<br>and running straight at 12 weeks when<br>8" step down is satisfactory  |
| Phase 4<br>16 weeks –<br>6 months | Full  | None   | Full   | <b>16 weeks:</b> Begin jumping   |
|                                   |   |  |  | <b>20 weeks:</b> Advance running to sprinting,<br>backward running, cutting, pivoting,<br>changing direction, initiate plyometric<br>program and sport-specific drills |
|                                   |   |  |  | 22 weeks: Advance as tolerated   |
|                                   |   |  |  | FSA completed at 22 weeks <sup>b</sup>   |
| Phase 5<br>6-12 months            | Full  | None   | Full   | Gradual return to sports participation<br>after completion of functional sports<br>assessment (FSA)  |
|                                   |   |  |  | Maintenance program based on FSA   |

## SLR – Straight-leg raise

<sup>a</sup>Modified with concomitantly performed meniscus repair/transplantation or articular cartilage procedure <sup>b</sup>Completion of FSA (Functional Sports Assessment) is not mandatory, but is recommended at approximately 22 wks postop for competitive athletes returning to play after rehabilitation