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bone patellar tendon bone autograft versus lars

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Eur J Orthop Surg Traumatol. 2013 Oct;23(7):819-23. doi: 10.1007/s00590-012-1073-1. Epub 2012 Sep 19.**Bone-patellar tendon-bone autograft versus LARS artificial ligament for anterior cruciate ligament reconstruction.**Pan X¹, Wen H, Wang L, Ge T.**Author information****Abstract**

The optimized graft for use in anterior cruciate ligament (ACL) reconstruction is still in controversy. The **bone-patellar tendon-bone** (BPTB) **autograft** has been accepted as the gold standard for ACL reconstruction. However, donor site morbidities cannot be avoided after this treatment. The artificial ligament of ligament advanced reinforcement system (**LARS**) has been recommended for ACL reconstruction. The purpose of this study is to compare the midterm outcome of ACL reconstruction using BPTB autografts or **LARS** ligaments. Between July 2004 and March 2006, the ACL reconstruction using BPTB autografts in 30 patients and **LARS** ligaments in 32 patients was performed. All patients were followed up for at least 4 years and evaluated using the Lysholm knee score, Tegner score, International Knee Documentation Committee (IKDC) score, and KT-1000 arthrometer test. There were no significant differences between the two groups with respect to the data of Lysholm scores, Tegner scores, IKDC scores, and KT-1000 arthrometer test at the latest follow-up. Our study demonstrates that the similarly good clinical results are obtained after ACL reconstruction using BPTB autografts or **LARS** ligaments at midterm follow-up. In addition to BPTB autografts, the **LARS** ligament may be a satisfactory treatment option for ACL rupture.

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