

Simultaneous Arthroscopic Anterior Cruciate Ligament Reconstruction Using Double Suspensory Technique and Medial Open Wedge High Tibial Osteotomy

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Anterior cruciate ligament (ACL) reconstruction generally is performed regardless of knee malalignment; however, some indications exist for staged or simultaneous ACL reconstruction with realignment procedures, such as a high tibial osteotomy (HTO). Simultaneous HTO-ACL reconstruction is associated with the advantage of a single surgical procedure with a faster recovery than a staged procedure and results in good clinical outcomes. Various surgical techniques, such as opening wedge and closing wedge osteotomies, have been previously described for the HTO procedure. In addition, previous ACL reconstruction techniques via bioabsorbable interference screw fixation in combination with ACL-HTO procedures have been described; however, a double suspensory ACL reconstruction technique using a suspensory cortical button has not been previously described for simultaneous ACL reconstruction and a medial open wedge HTO procedure. Because recent studies have compared suspensory graft fixation versus bioabsorbable screws, showing superior results with more bone mass preservation and less graft rupture, this video demonstrates a simultaneous ACL-HTO procedure via an arthroscopic double suspensory ACL reconstruction technique for the management of varus malaligned knees with ACL tearing.