

Revision ACL reconstruction with Anterior Closing Wedge Osteotomy using Patient Specific Instrumentation

Wendell W Cole¹, Dylan T Lowe, Laith M Jazrawi²

¹Tulane University School of Medicine, ²Center For Musculoskeletal Care

Background:

Failed anterior cruciate ligament (ACL) reconstruction can be a difficult problem to address. A multitude of reasons can contribute to ACL reconstruction failure, including patients who have an increased posterior tibial slope. Anterior closing wedge osteotomy is useful for patients undergoing revision ACL reconstruction with an increased posterior tibial slope.

Purpose:

This video overview and case presentation demonstrates revision ACL reconstruction with an anterior closing wedge high tibial osteotomy using patient specific instrumentation.

Methods:

A case of a 31 year-old male with a history of a failed ACL reconstruction is shown. Patient had a chronic ACL tear and an anterior wedge HTO using patient specific instrumentation, revision ACL reconstruction with a modified Lemaire was performed.

Results:

The ligament was reconstructed resulting in a stable knee. The patient is progressing well with his recovery.

Conclusion:

Anterior closing wedge osteotomy using patient specific instrumentation along with revision ACL reconstruction is a safe and accurate treatment for patients with failed ACL reconstructions and increased tibial slope.