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CONGRESS
2025



MUNICH
GERMANY
June 8-11



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2025 ISAKOS Biennial Congress Paper

Technique for Shaped De-Mineralised Bone Fiber Augmentation in Arthroscopic Rotator Cuff Repair: A Technical Note

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FDA Status Cleared

Summary

A surgical technique description for use of the Tetrus EnFix device in arthroscopic rotator cuff repair procedures.

Abstract

The high retear rates in rotator cuff repairs, ranging from 13% to 38%, pose a significant challenge in orthopaedic surgery, primarily due to issues with tendon ingrowth. Despite advancements in surgical techniques, the lack of biological optimization remains a significant hurdle. The Tetrus™ EnFix™ device, utilizing demineralized bone fibers (DBF), offers an innovative solution by promoting osteoinductive and osteoconductive processes. This aids in the formation of the enthesis, thereby enhancing tendon-to-bone healing and potentially reducing retear rates. Preclinical and experimental studies suggest that DBF significantly improves tendon-bone healing, though clinical validation is still needed. In this technical note we portray the use of shaped demineralized bone fiber implant as an augmentation in arthroscopic rotator cuff repair and arthroscopic suprapectoral biceps tenodesis. This technique shows promise in addressing the biological aspects of tendon healing, potentially offering a safe and effective approach to reducing retear rates.

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