EXPANDOLOCK Revolutionizing ACL Reconstruction Fixation





Sabal Orthopaedic Solution introduces the Expando-Lock

- First compatible system with current suspension fixation devices
- Limited additional surgical time added
- 50% more surface contact between graft and cancellous bone
- 360 degree surface contact between graft and bone
- Ideal anatomical fixation at aperture





Currect Technology Problem Current ACL suspension fixation lacks proper surface contact required for healing between the ACL graft and bone.

Current Technology Need There needs to be a product that can actively compress the ACL graft in the cancellous bone while being compatible with suspension fixation systems.





"The ExpandoLock can create the most ideal aperture fixation for ACL reconstruction on both the femur and tibial side. This would, in turn, accelerate the tissue to the bone healing process in the intial healing phase."

-Dr. Douglas Wyland, Orthopaedic Surgeon with Steadman Hawkins CLinic of the Carolinas

Surgical Procedure





Loop suspension graft preparation used but with two Expando-Lock devices fixated at each end via whipstitching technique.



ACL graft is pulled and secured in place via loop suspension system. ExpandoLock s still rested.



Activation suture for the ExpandoLock is pulled. ExpandoLock forced to expand radially gradually.



Activation suture for the ExpandoLock is tied to the lock pin. ExpandoLock fixated in deployed state.

Device Specificiations

Resting Dimensions	Deployed Dimension
Height = 35mm	Height = 9mm
Thickness = 1.5mm	Thickness = 3.0 mm
Suture Length = 300mm	Suture Length = 300mm

Material: Ultra High Molecular Weight Polyethylene (UHMWPE)

How it works?

- The ExpandoLock is a polymeric weave that is fixated inside the ACL graft.
- The ExpandoLock's activation suture forces the bottom of the weave to collapse in height and expand radially.
- The radial expansion of the ExpandoLock pushes the graft into the cancellous bone aiding in healing creating vital surface contact.

ACLR Statistics

- 200,000 ACL reconstructions annually in America¹
 - Expected to increase as sports participation increases
 - Most common injured ligament²
- 8.4% of patients need revision surgery³ •
 - 4.7% of patients require revision surgery within 2 years of previous revision surgery⁴
- Risk of osteoarthritis increases 15-20% following ACL reconstruction¹
- Market value of \$8.4 billion⁵
 - CAGR 9.3%⁵
- Average recovery takes 6 months or longer

 EFORT Open Rev. 2016 Nov; 1(11): 398–408.
ACTA Ortopedica Brasileira. 2014; 22(3)
Orthop J Sports Med. 2018 Jun; 6(6): 2325967118775381 [³] Orthop J Sports Med. 2016 Sep; 4(9): 2325967116666039. ^[5] Grand View Research. 2019 Sept.







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