



Adhesive Coated Sutures for Tendon-to-Bone Repairs

(WU Ref. No. 14989)

Background: Surgical tendon-to-bone repairs are challenging and have high failure rates. For example, the rupture rate for rotator cuff repairs is up to 94%, depending on the patient's age and the size of the tear.

Technology: Coated sutures are designed for improved mechanical resilience to prevent failure of surgical repair. Unlike conventional sutures, which concentrate stress at the point of attachment, these sutures use an adhesive coating and soft adhesive zone to distribute stress along the length of the suture and reinstate load transfer across the tendon-to-bone repair.

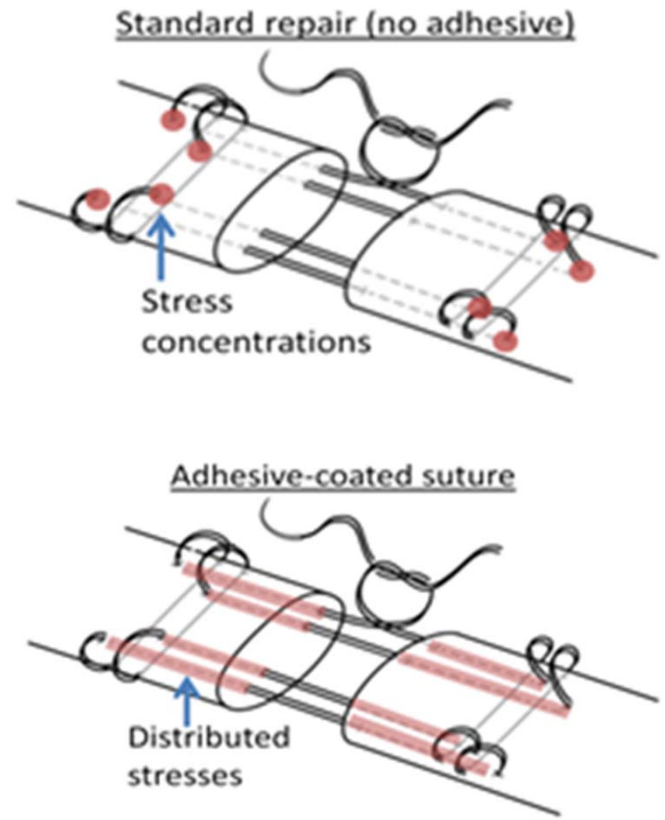
Value Proposition:

- Reduce rupture rate - resilient, coated sutures improve overall repair strength which could improve surgical success

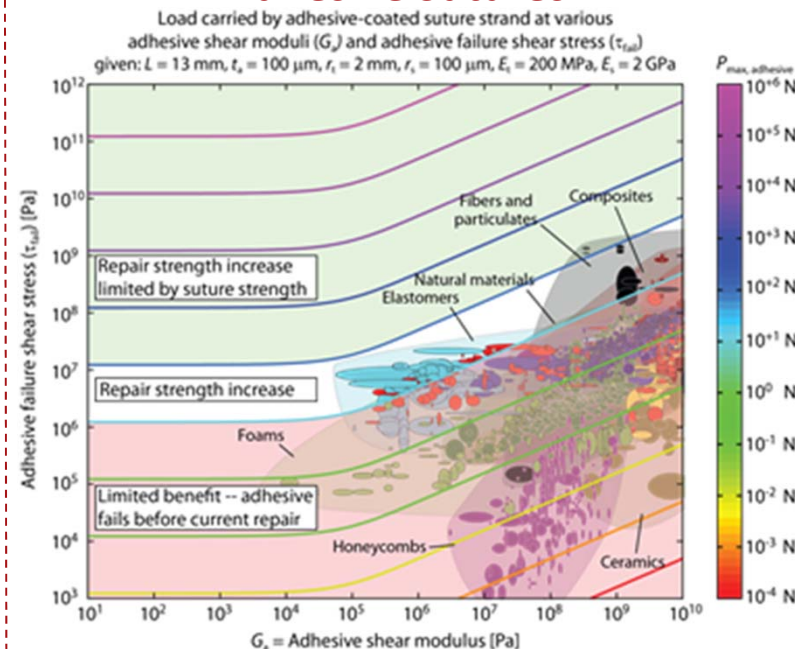
Stage of development: Prototype

Patent: [Issued Patent 10,314,574](#)

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Ideal Mechanical Properties of Adhesive Sutures



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