

Amend Tissue Tape for Oral Wound Care

Clinical Need

An intraoral wound overlay for soft tissue that is easy to apply, remains in place for the duration of wound healing, and can be removed without causing damage to underlying tissue. Current options for oral wound care are limited to difficult to use, uncomfortable, and largely ineffective glues and resins.

Solution

Amend Tissue Tape™ is a hydrogel-based adhesive comprised of two primary elements. The hydrogel consists of an interpenetrating network of alginate and polyacrylamide. The adhesive is composed of chitosan, which forms covalent bonds across the interface. When used together, the hydrogel and adhesive adhere to wet tissue and provide over five times the adhesion energy of cyanoacrylate while also providing a long duration mechanical barrier for the wound and flexibility to stretch with the wound without damaging the underlying tissue.

Competitive Advantage

There are limited products available that will safely adhere to sutured or non-sutured oral wounds. Periacryl, a cyanoacrylate-based product indicated as a dental cement, is often used off-label for wound closure. It requires a dry environment to fully set and is rigid, not stretching to accommodate movement or swelling. Amend Tissue Tape™ adheres to tissue in a wet environment, stretches with the wound, and stays in place for up to one week. This facilitates wound healing and the regeneration process.

Foundational Publications & Patents

- Li et al. Tough adhesives for diverse wet surfaces. [Science 2017](#)
- [PCT/US2019/055779](#) Bio-Inspired Degradable Tough Adhesives for Diverse Wet Environments

Achievements

- Qualifications and validations complete
- Production ready
- In 2024, 31% of our private equity funding round has been secured

Regulatory Pathway

- 510(k)

Opportunities for Partnerships

- Continue to pursue strategic partner for distribution and R&D



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