



Super Strength. Powerful Properties.

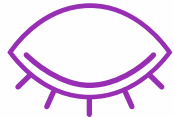
AmnioGuard® is the super-thick cryopreserved umbilical cord tissue graft that suppresses inflammation, promotes ocular surface healing, and provides more durable tensile strength to avoid ocular-surface surgical challenges related to¹⁻⁴:



Conjunctival tumor excisions and reconstructions



Glaucoma drainage device implantations



Oculoplastic reconstructions

Proprietary CryoTek® preservation method retains the structural and biologic properties of the umbilical cord.



Average AmnioGuard thickness is 500 to 900µm.⁵

Post-excision of conjunctival tumors Advanced Healing

In an ocular surface reconstruction study, the biological properties of AmnioGuard supported 100% epithelialization without complications, including¹:

- No wound dehiscence
- No primary symblepharon formation
- No donor-site morbidities
- No tears or displacement



Day 0



1-Week Post-Op



Healing at 9-Months

AmnioGuard is easy to place and remains intact.¹

Post-glaucoma treatment

Superior Stability

In the STEPS* clinical trial, AmnioGuard was proven to be a superior alternative to pericardium, and a safe, stable adjunctive therapy to avoid glaucoma shunt-tube coverage deficiencies, demonstrating²:

- Better host-tissue integration
- Significantly less graft thinning ($P = 0.007$)
- Superior graft translucency
- Superior cosmetic appearance

*Shunt Tube Exposure Prevention Study (STEPS) is a Randomized Controlled Trial (RCT) supported by National Institutes of Health (NIH) and National Eye Institute (NEI)

AmnioGuard has superior thickness to avoid shunt tube exposure.²



Post-oculoplasty

Optimal Healing

In fornix, socket, and eyelid margin reconstruction studies, AmnioGuard achieved 100% epithelialization and ensured structural stability.⁴ Results included³:

- No wound dehiscence
- No socket contracture recurrence
- No clinically significant complications
- Excellent prosthesis fit at final follow-up

AmnioGuard withstands the weight of ocular prosthesis or tension from load-bearing sutures.⁴



Pre-op: Poor ocular prosthesis fit and retention



1-month post-op: Improved fit and retention

Transform Ocular Surface Recovery in Your Practice Today.

CONTACT YOUR BIO-TISSUE CUSTOMER SERVICE REPRESENTATIVE

Call 1.888.296.8858 (8:00am to 5:00pm ET), or visit www.biotissue.com.

References: **1.** Finger PT, Jain P, Mukkamala SK. Super-thick amniotic membrane for ocular surface reconstruction. *Am J Ophthalmol.* 2019;198:45-53. **2.** Sheha H, Tello C, Al-Aswad L, Sayed M, Lee R. Outcomes of the shunt tube exposure prevention study (STEPS), a randomized clinical trial. *Ophthalmol Glaucoma.* [Online] August 16, 2019. **3.** Slentz D, Nelson C. Novel use of cryopreserved ultra-thick human amniotic membrane for management of anophthalmic socket contracture. *Ophthalmic Plast Reconstr Surg.* 2019;35(2):193-196. **4.** Slentz D, Joseph S, Nelson C. The use of umbilical amnion for conjunctival socket, fornix, and eyelid margin reconstruction. *Ophthalmic Plast Reconstr Surg.* 2019. doi: 10.1097/IOP.0000000000001555.[Epub ahead of print] **5.** Tan EK, Cooke M, Mandrycky C, et al. Structural and biological comparison of cryopreserved and fresh amniotic membrane tissues. *J Biomater Tissue Eng.* 2014;4(5):379-388.

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