AMNIOGRAFT® & AMNIOGUARD®



AmnioGraft® and AmnioGuard® are the only ocular transplantation grafts offering CryoTek® cryopreserved amniotic membrane tissue to help speed post-op recovery, prevent disease recurrence, and optimize long-term patient outcomes^{3,4,6-8}



Support

Regenerative Healing.

AmnioGraft, an amniotic membrane graft, helps rapidly restore the healthy ocular surface when used during ocular surface reconstruction surgery, especially with pterygium and conjunctivochalasis (CCh) procedures. Delivering the unique therapeutic advantage of cryopreserved amniotic membrane tissue, AmnioGraft can help your patients achieve superior cosmetic outcomes and maximize long-term results.^{3,4,6,7}



SUPPORT ACCELERATED POST-OP RECOVERY¹

- Promotes fast, regenerative healing—typically in 2-3 weeks¹⁻⁷
- Reduces inflammation^{5,9-11}



HELP PREVENT DISEASE RECURRENCE^{1,2,6-8}

 As demonstrated in a study of 535 patients, AmnioGraft creates a durable recurrence barrier proven to support sustained healing with ≤5.8%* recurrence after 1 year¹



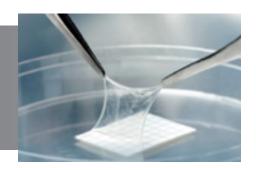
ENHANCE EACH PROCEDURE

The only amniotic membrane tissue with high tensile strength that:

- Retains intraoperative resilience and workability⁸
- Ensures reproducible surgical outcomes
- Offers multiple sizes to accommodate any sized ocular defect—large or small

BIOLOGIC AND STRUCTURAL INTEGRITY, EQUIVALENT TO FRESH TISSUE^{2,12}

Proprietary CryoTek preservation method retains the biologic properties of the key effector protein complex HC-HA/PTX3^{2,12}





Super Strength. Powerful Proof.

AmnioGuard is an ideal solution when a thicker and more durable tensile strength graft is required during ocular surface surgery. This cryopreserved amniotic membrane and umbilical cord tissue suppresses inflammation and promotes ocular surface healing.¹⁵⁻¹⁷

ACHIEVE OPTIMAL OUTCOMES

As demonstrated in the STEPS study, AmnioGuard was shown to be a superior alternative to pericardium as a solution for safe and stable tube shunt coverage. Results included¹⁵:

- Better host-tissue integration
- · Significantly less graft thinning
- Superior graft translucency
- Superior cosmetic appearance

EXPEDITE HEALING

In studies evaluating AmnioGuard as an alternative to other homologous tissue grafts for ocular surface reconstruction¹⁶ and management of anophthalmic socket contracture¹⁷, the following results were achieved:

- 100% epithelialization¹⁶
- No wound dehiscence¹⁶
- Excellent prosthesis fit at final follow up¹⁷
- No clinically significant complications¹⁷



AmnioGraft AmnioGuard

Both

AMNIOGRAFT AND AMNIOGUARD ARE ADJUNCT THERAPIES FOR:



Corneal Indications

- Persistent Epithelial Defects
- Ulcers
- Descemetocele or Perforation
- Neurotrophic
- Bullous Keratopathy
- Band Keratopathy



Conjunctival Indications

- Primary & Recurrent Pterygia
- Pinguecula
- Removal of Tumors or Lesions
- Conjunctivochalasis
- Superior Limbic Keratoconjunctivitis
- Symblepharon
- Leaking Blebs
- Shunt Tube Exposure Prevention
- Limbal Stem Cell Deficiency



Other Ocular Surface/ Oculoplastics Indications

- Chemical and Thermal Burns
- Stevens-Johnson Syndrome / Toxic Epidermal Necrosis
- Pemphigoid
- Marginal Entropian Repair

- Scleral Melt/Ischemia
- Fornix & Socket Reconstruction
- Strabismus Repair
- Medial Cantal Reconstruction



Pterygium:

The TissueTuck[™] Technique



LOWER RECURRENCE, OPTIMAL HEALING

- AmnioGraft easily tucks into position to recreate the semi-lunar fold, "sealing the gap" between the conjunctiva and Tenon to help prevent reinvasion of residual fibrovascular tissue
- Creates only 1 wound



OPTIMIZES SURGICAL OUTCOMES:

Long-term recurrence of

≤5.8%^{1*} | 7 days

Superior cosmetic outcomes as early as

Cuts procedural time by

30 minutes

PRE-OP



1 YEAR POST-OP



GG

<1% Recurrence in over 700 patients after 1 year8

Dr. Neel Desai, The Eye Institute of West Florida

Recurrence rate with conventional pterygium surgery is as high as

Conjunctivochalasis (CCh):

The Reservoir Restoration Technique

Mechanically induced dry eye, commonly known as CCh, is one of the most commonly underdiagnosed/misdiagnosed ocular surface diseases.¹³

Dry eye syndrome patients who are not responding to current interventions should be evaluated for CCh.

AMNIOGRAFT ADDRESSES THE UNDERLYING CAUSE OF CCH^{3,7,18}:

- Efficiently replaces the degenerated Tenon's fascia and excised conjunctiva
- Natural properties support restoration of the tear reservoir to a healthy state
- Restores tear flow from fornix to tear meniscus*

PRE-OP

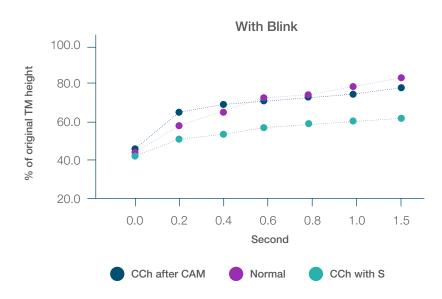


1 YEAR POST-OP



Conventional CCh procedures may further diminish the tear reservoir.¹⁴

RECOVERY RATES AFTER RESERVOIR RESTORATION PROCEDURE^{18*}



GG

These results suggest a high correlation between symptomatic relief and rapid recovery of the tear meniscus height after maximal depletion in CCh patients as early as the first postoperative day.¹⁷



Transform Ocular Surface Recovery in your Practice Today.

CONTACT YOUR BIO-TISSUE CUSTOMER SERVICE REPRESENTATIVE

Call 1.888.296.8858 between 8:00 am and 5:00 pm EST, or visit www.biotissue.com.

AMNIOGRAFT®

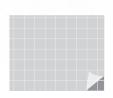
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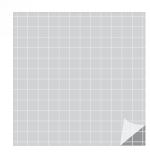




AG 2015 2.0 x 1.5 cm



AG 2520 2.5 x 2.0 cm



AG 3535 3.5 x 3.5 cm

Also available in: AG 5050 5.0 x 5.0 cm, AG 10050 10.0 x 5.0 cm

Average thickness: 75-150 µm¹⁹

AMNIO**GUARD**

(Shown as Actual Size)



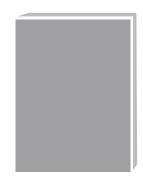
AGD 1075

1.0 x 0.75 cm



AGD 2520

2.5 x 2.0 cm



AGD GS40

3.0 x 4.0 cm

Average thickness: 500-900 µm¹⁹

References: 1. Rosen R. Amniotic membrane grafts to reduce pterygium recurrence. Comea. 2017;0:1–5. 2. Cooke M, Tan EK, Mandrycky C, et al. Comparison of cryopreserved amniotic membrane and umbilical cord tissue with dehydrated amniotic membrane/chorion tissue. J Wound Care. 2014;23(10):465-476. 3. Kheirkhah A, Casas V, Blance C, Li W, Hayashida Y, Chen YT, Tseng SC. Amniotic membrane transplantation with fibrin glue for conjunctivochalasis. Am J Ophthalmol. 2007;144(2):311-3. 5. Tseng S, Espana E, Kawakita T, et al. How does amniotic membrane work? The Ocular Surface. 2004; 2(3):177-187. 6. Solomon A, Pires RTF, Tseng SCG. Amniotic membrane transplantation after extensive removal of primary and recurrent pterygia. Ophthalmology. 2001;108:449-460. 7. Georgiadis NS, Terzidou CD. Epiphora caused by conjunctivochalasis: treatment with transplantation of preserved human amniotic membrane. Cornea. 2001; 20(6):619-621.8. Desai NR, The Tissue Tuck." Technique: Sutureless pterygium surgery with AmnioGraft reteatment with transplantation of preserved human amniotic membrane. Cornea. 2001; 20(6):619-621.8. Desai NR, The Tissue Tuck." Technique: Sutureless pterygium surgery with AmnioGraft reteatment with transplantation of preserved human amniotic membrane. Cornea. 2001; 20(6):619-621.8. Desai NR, The Tissue Tuck." Technique: Sutureless pterygium surgery with AmnioGraft reteatment with transplantation of preserved human amniotic membrane. Cornea. 2001; 20(6):619-621.8. Desai NR, The Tissue Tuck." Technique: Sutureless pterygium surgery with AmnioGraft reteatment with transplantation of preserved human amniotic membrane. Cornea. 2001; 20(6):619-621.8. Desai NR, The Tissue Tuck." Technique: Sutureless pterygium surgery with AmnioGraft reteatment with transplantation of preserved human amniotic membrane epithene. Intersection for angiogenesis by HC-HA, a complex of hydromental preserved human amniotic membrane ending the preserved human amniotic membrane epithene. Intersection for angiogenesis by HC-HA, a complex of hydrome

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