



DefEYEing Convention

Elevating the management
of ocular surface disease and
ocular surgery



BioVance[®] 3L
OCULAR

BIOVANCE[®]

The **only** decellularized basement membranes (DBMs)¹

INDICATIONS FOR USE

BIOVANCE 3L Ocular is an allograft intended for use as a biological membrane covering that retains the naturally occurring extracellular matrix. BIOVANCE 3L Ocular, intended for homologous use, may be used as a structural barrier in procedures involving ocular surface defects, epithelial compromise, or tissue disruption; surgical repair or reconstruction of the cornea, conjunctiva, or fornix; coverage of surgically created ocular surface defects, ocular surface procedures associated with inflammatory, infectious, degenerative, or traumatic etiologies; and adjunctive use in ophthalmic surgical procedures where a protective tissue covering is indicated.

IMPORTANT SAFETY INFORMATION

BIOVANCE 3L Ocular is contraindicated in patients with a known hypersensitivity to BIOVANCE 3L Ocular. If a patient has an adverse reaction related to the use of BIOVANCE 3L Ocular, immediately discontinue its use. BIOVANCE 3L Ocular should not be used on clinically infected wounds. The pouch contents are sterile if the pouch is unopened and undamaged. Do not use if package seal is broken. Discard the material if mishandling has caused possible damage or contamination. Do not resterilize. BIOVANCE 3L Ocular must be used prior to the expiration date on the product pouch. BIOVANCE 3L Ocular should not be used together with a collagenase product on the wound. BIOVANCE 3L Ocular should not be used with a bandage contact lens.

Persistent epithelial defects (PEDs)

Etiologies, drivers, and burden

PEDs are corneal epithelial defects that fail to heal within 2 weeks and arise from diverse etiologies²

Category	Etiologies of PEDs
Surgical	<ul style="list-style-type: none">• Incisional or laser-based ocular surgeries<ul style="list-style-type: none">• Cataract surgery• Pterygium removal surgery• Laser-assisted in situ keratomileusis (LASIK)• Penetrating or lamellar keratoplasty• Neurosurgeries causing damage to the trigeminal ganglion
Injury	<ul style="list-style-type: none">• Exogenous injury<ul style="list-style-type: none">• Chemical or thermal burns• Ultraviolet light injury• Exposure keratopathy• Prolonged overuse of contact lenses• External agents<ul style="list-style-type: none">• Viral infection (eg, herpetic keratitis)• Drugs (eg, Stevens-Johnson syndrome)
Autoimmune	<ul style="list-style-type: none">• Sjögren syndrome• Ocular cicatricial pemphigoid• Ectodermal dysplasia
Allergic	<ul style="list-style-type: none">• Vernal keratoconjunctivitis• Atopic keratoconjunctivitis
Other	<ul style="list-style-type: none">• Vitamin A deficiency• Severe dry eye disease• Corneal dystrophies

All PEDs share common pathophysiological drivers²

1. Tear disorder (dry eye)

Inadequate tear film leads to reduced lubrication and excessive friction between the eyelid and the cornea, causing mechanical and inflammatory damage

2. Limbal stem cell deficiency

Disruption of the limbal stem cell niche reduces the regenerative capacity of epithelial cells

3. Inflammation

Elevated proinflammatory mediators (eg, IL-1 β , TNF, IL-6, IL-8, matrix metalloproteinases) contribute to extracellular matrix (ECM) degradation and epithelial cell loss

4. Neurotrophic keratopathy

Alterations in corneal nerves lead to impaired sensory and trophic function, resulting in breakdown of the corneal epithelium

IL-1 β , interleukin-1 β ; TNF, tumor necrosis factor; IL-6, interleukin-6; IL-8, interleukin-8.

Serious wounds require intervention beyond ocular surface lubrication and discontinuation of preservative-containing medications²

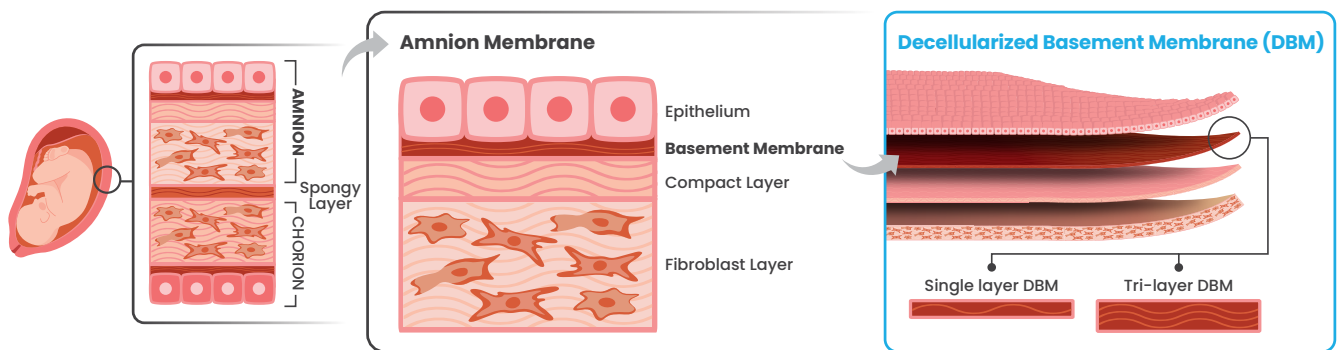
Human AMT-derived allografts

The gold-standard physical barrier for ophthalmic wound repair^{2,3}

The stratified biological organization of AMT makes it appealing as a scaffold for ophthalmic wound repair³

How AMT helps repair ophthalmic wounds

- Acts as a physical barrier, protecting the eye against mechanical trauma from lid closure and preventing surface desiccation by maintaining a hydrated microenvironment²
- Is rich in growth factors and structural proteins that promote corneal healing³
- Serves as a substrate for adhesion, migration, and proliferation of corneal epithelial cells and limbal stem cells when used as a graft to treat corneal pathologies²



Only DBM offers all the benefits of AMTs, without donor cell debris, while preserving ECM functionality and triggering an efficient host cell-mediated response^{1,4}

AMT, amniotic membrane tissue.

DBM represents an advance over cryopreserved and conventional dehydrated AMTs:



Removes donor cell debris and proinflammatory chorion to minimize immune responses⁴



Preserves the matrix scaffold and ECM protein production⁴



Adheres efficiently to reduce slippage and allow for glueless, sutureless surgery^{5,6}

BIOVANCE® 3L Ocular and BIOVANCE® are the only decellularized basement membranes for ophthalmic wound care applications¹

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BIOVANCE® 3L Ocular | BIOVANCE®

The only decellularized basement membranes (DBMs)¹

Tri-layer architecture with a preserved natural epithelial basement membrane and intact ECM structure¹



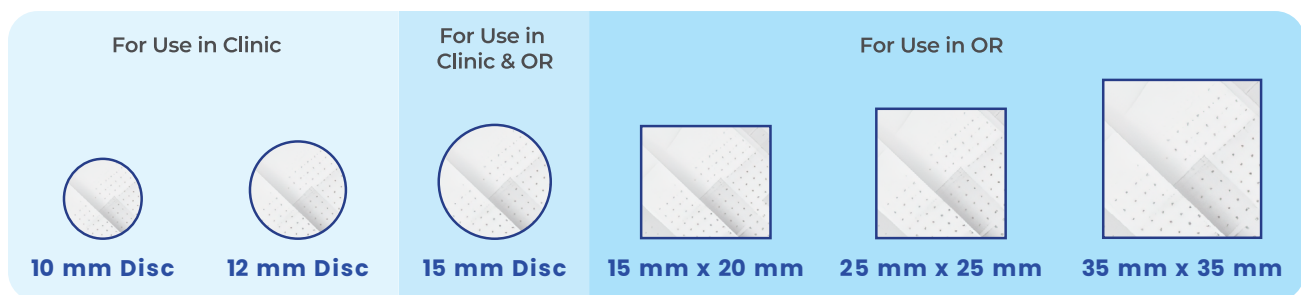
BIOVANCE 3L Ocular



BIOVANCE

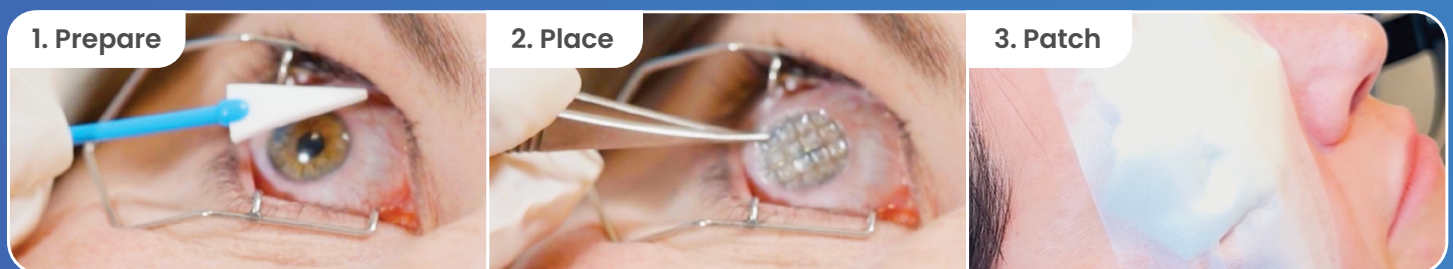
- Storage at ambient room temperature¹
- No specific orientation (which side is up or down) required, allowing ease of handling¹
- Does not contain a symblepharon ring, which may be associated with eye pain, headache, and discomfort^{1,7}
- Aseptically processed and terminally sterilized with E-beam irradiation¹
- Tested poststerilization to demonstrate the absence of bacterial and fungal pathogens¹

Three-layer & single-layer designs are available in 6 convenient shapes & sizes¹



OR, operating room.
Not actual size.

Simple and intuitive application process¹

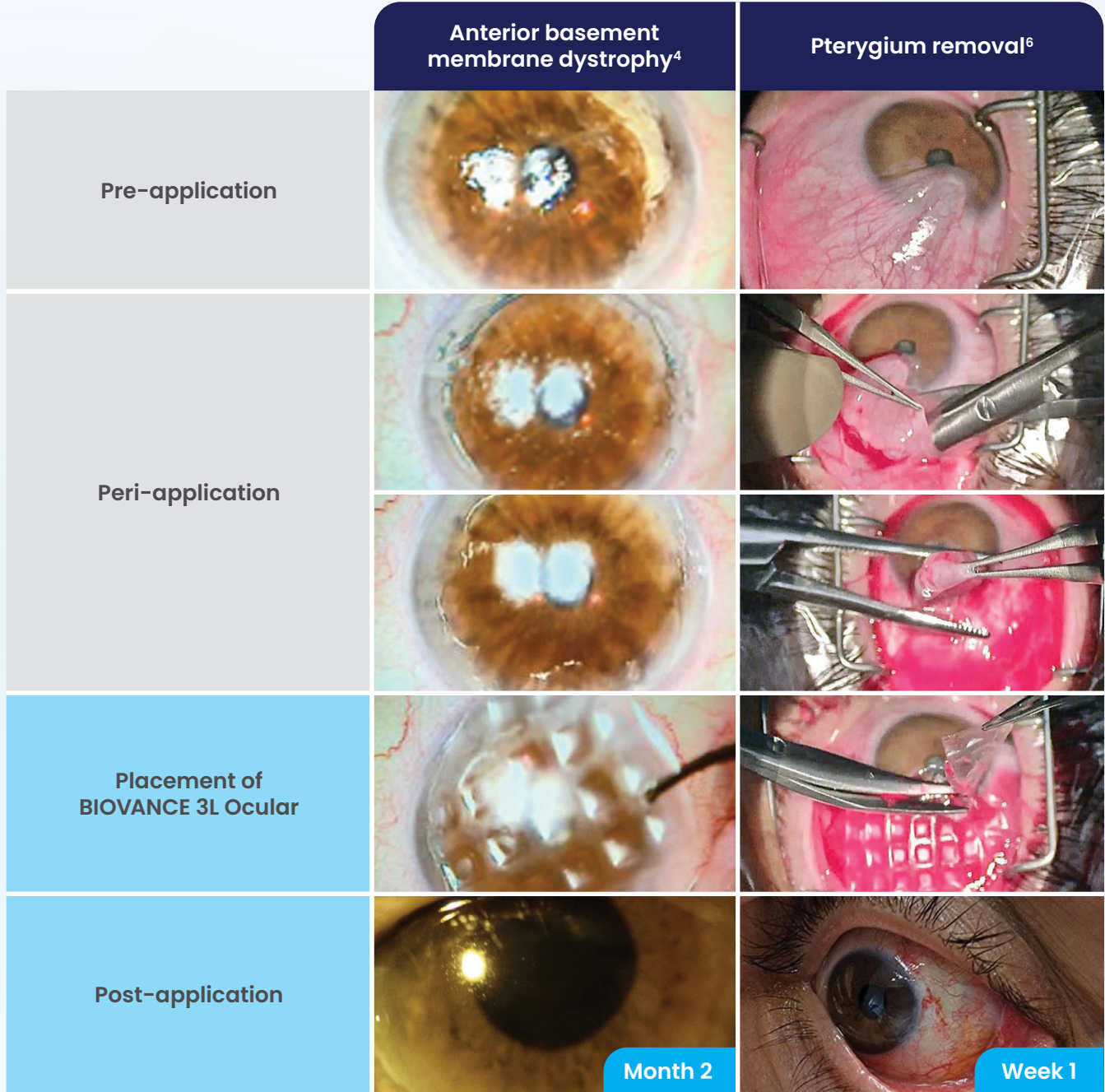


Visit defeye.com to watch our clinical application process video

BIOVANCE® 3L Ocular in practice

Proven performance across corneal pathologies

Demonstrated efficacy of BIOVANCE 3L Ocular on ocular surface wounds

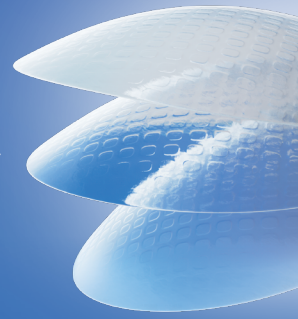


"Unlike other placental-based allografts, [BIOVANCE 3L Ocular] is completely devoid of cells, hormones, cytokines, and growth factors. This leaves a clean scaffold that can be populated with autologous cells and growth factors after application to a surgical site."⁶

Visit defeye.com to watch the pterygium surgical video featuring BIOVANCE 3L Ocular

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DefEYEing convention in ocular surface disease & ocular surgery



BIOVANCE® 3L Ocular is a novel decellularized basement membrane for ophthalmic applications

- Triple-layer design, with **no specific orientation required** for placement and **no symblepharon ring**¹
- **Ambient room temperature storage**, with no upfront preparation required¹
- Diverse product configurations, with **a simple, intuitive application process**¹
- Demonstrated ability to **promote ocular surface healing across diverse corneal pathologies**^{4,6}

Access support



Verification of coverage and explanation of insurance benefits



Coding and billing assistance



Facilitation of prior authorization or precertification



Onboarding call and education



Appeal assistance after insurance denial



Brought to you by DefEYE—a leader in ocular surface disease & ocular surgery solutions

DefEYE, Inc. is on a mission to transform and personalize therapeutic approaches in eye care. The company focuses on delivering innovative decellularized biologic solutions that optimize treatment and management of various eye care conditions, including ocular surface diseases, pterygium surgery, and other surgical interventions. **To learn more, visit www.defeye.com.**

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For product information, contact 786-723-7178 or email info@defeye.com. For adverse reaction reporting, contact 844-963-2273.

Please refer to the BIOVANCE 3L Ocular package insert or BIOVANCE package insert for complete product information.

References: 1. BIOVANCE 3L Ocular. Package insert. 2. Thia ZZ, Ho YT, Shih KC, Tong L. New developments in the management of persistent corneal epithelial defects. *Surv Ophthalmol.* 2023;68(6):1093-1114. 3. Dadkhah Tehrani F, Firouzeh A, Shabani I, Shabani A. A review on modifications of amniotic membrane for biomedical applications. *Front Bioeng Biotechnol.* 2021;8:606982. 4. Mao Y, Protzman NM, John N, et al. An in vitro comparison of human corneal epithelial cell activity and inflammatory response on differently designed ocular amniotic membranes and a clinical case study. *J Biomed Mater Res B Appl Biomater.* 2023;111(3):684-700. 5. Linsey K. Use of an eyelid pressure patch concomitantly with a decellularized dehydrated amniotic membrane for ocular surface disease management. *Ophthalmol Ther.* 2025;14(3):573-584. 6. Rivera-Morales P, Barnard L, Linderman W, Gill M, Diaz V. Surgical time and postoperative symptoms study in pterygium excision and amniotic membrane graft using Celularity triple layer dehydrated amniotic membrane. *Clin Ophthalmol.* 2023;17:1967-1974. 7. Pachigolla G, Prasher P, Di Pascuale MA, McCulley JP, McHenry JG, Mootha VV. Evaluation of the role of ProKera in the management of ocular surface and orbital disorders. *Eye Contact Lens.* 2009;35(4):172-175.