nu(ision®

Omnigen®

Tereo® processed human amniotic membrane
for application in ophthalmology

The natural choice to support ocular healing

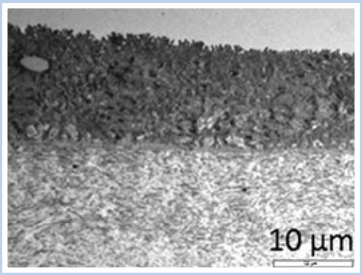
- Surgical and outpatient application options
- Storage between 2°C - 25°C
- No preparation time required
- Range of pre-cut sizes for ease of application

Why amniotic membrane transplantation?

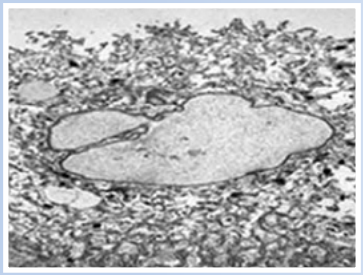
	Feature	Benefit
Prevents inflammatory cell infiltration[1-2]	Eliminate infiltrating immune cells before they damage the cornea	Reduces fibrosis and corneal haze that leads to scarring and visual impairment
Tectonic support[3]	Naturally biocompatible substrate for tissue integration	Allows effective tissue support and repair
Pain Management[1,4]	Provides clinically proven pain relief	Improves patient comfort and experience
Provides an environment for natural healing[3]	Provides an environment conducive to cellular recovery	Supports the acceleration of natural healing and repair

Omnigen: Tereo processed amniotic membrane

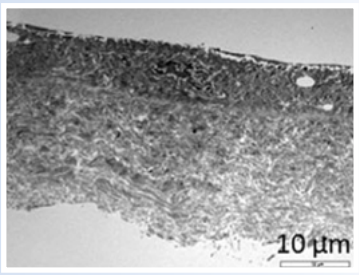
The Tereo process preserves the natural integrity of amniotic membrane, compared to other methods through its delicate preservation process.[5]



Fresh amniotic membrane



Cryopreserved amniotic membrane

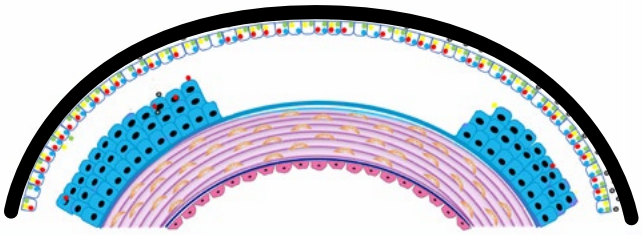


Tereo processed amniotic membrane, Omnigen ©

- **Retained structural integrity**
- **Preserved barrier function**
- **Maintained tissue quality**
- **Delicate preservation process**

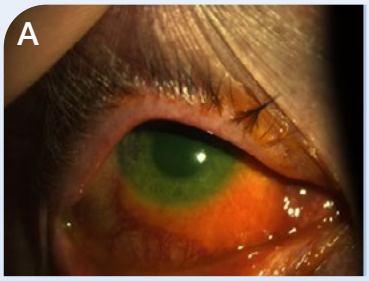
Omnigen® applications

Onlay-graft (patch) application

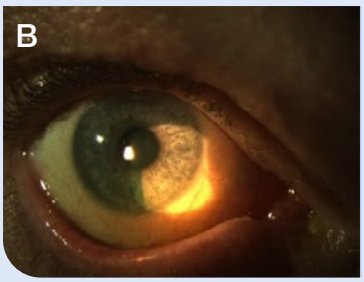


Onlay Graft (patch)

- Applied **epithelial-side-down**
- Prevents inflammatory cell infiltration
- Provide an environment conducive for healing
- Temporary biological bandage

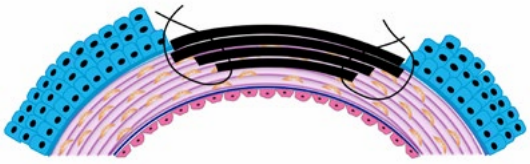


A) Patient 5 days following an alkali injury with a large area conjunctival and epithelial defect



B) The patient 14 days following Omnigen application with a fully healed ocular surface [3]

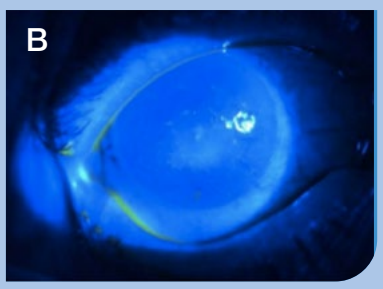
Inlay-graft (graft) application



Inlay Graft (graft)

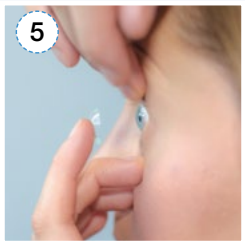
- Applied **epithelial-side-up for repair**
- Basement membrane for epithelial regrowth
- Scaffold for tectonic support
- Permanently remodelled

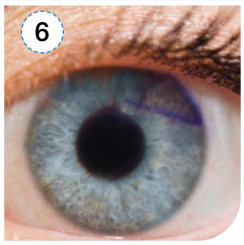
A) Omnigen placed as an inlay-graft in a patient with a non-healing epithelial defect, taken 2 weeks post-operatively



B) Patient at the 3 week follow-up with no fluorescein staining[6]

Outpatient application of Omnigen: **4 – 6 minute procedure**





The natural healing properties of Omnigen can be applied in an outpatient setting using OmniLenz, bandage contact lens

Regulatory

Omnigen® is aseptically processed according to the regulatory standards of the Human Tissue Authority (HTA) Guide to Quality and Safety Assurance for Human Tissues and Cells for Patient Treatment. Traceability of Omnigen transplantations should always be noted.

Omnigen® is aseptically processed and tested for the following prior to release following Annex B of the HTA Guide to Quality and Safety Assurance for Human Tissues and Cells for Patient Treatment (Directions 001/2021)	**HIV: Anti HIV1, HIV2 & p24**
	HIV-1 RNA Viral Load
	Hepatitis B: HBsAg & anti-HBc
	Hepatitis B Virus DNA
	Hepatitis C: Anti-HCV-Ab
	Hepatitis C Virus RNA
	Syphilis: IgG/IgM & RPR
	Hepatitis E Virus RNA
	HTLV-I/II Antibody
	Cytomegalovirus

Tissue decontamination is performed using an antibiotic-antimycotic solution. Traces of antibiotics will be present in the allograft. You should assess all patients for antibiotic sensitivity before treatment.

Contact

Get in touch with the NuVision team to learn more about Omnigen and to explore how it may benefit your clinical service.

NuVision Biotherapies
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Website: www.nu-vision.co.uk

References

1. Arora, R., Mehta, D. & Jain, V. Amniotic membrane transplantation in acute chemical burns. Eye 19, 273–278 (2005). https://doi.org/10.1038/sj.eye.6701490
2. Meller D, Pauklin M, Thomasen H, Westekemper H, Steuhl KP. Amniotic membrane transplantation in the human eye. Dtsch Arztebl Int. 2011;108(14):243-248. doi:10.3238/arztebl.2011.0243
3. V-Q08, NuVision Case Study
4. Dua HS, Gomes JA, King AJ, Maharajan VS. The amniotic membrane in ophthalmology. Surv Ophthalmol. 2004;49(1):51-77. doi:10.1016/j.survophthal.2003.10.004
5. Allen CL, Clare G, Stewart EA, *et al.* Augmented dried versus cryopreserved amniotic membrane as an ocular surface dressing. PLoS One. 2013;8(10):e78441. Published 2013 Oct 30. doi:10.1371/journal.pone.0078441
6. NUV001. NuVision internal case study