

# ▶ DUAL LAYER AMNIOTIC ALLOGRAFT AUTOGRAFT DONOR SITE

## CASE STUDY



This case is an example of the practice's experiences with the VIVEX Biologics dual layer amniotic allograft in managing autograft donor sites.

Autograft donor sites are typically easy to manage but can be a challenge for patients with slow or compromised healing. The practice mentioned in this case study uses VIVEX® Biologics dual layer amniotic allograft to treat slow healing donor sites. The dual layer amniotic allograft has 2 layers of amnion and provides a barrier and provides mechanical protection to the damaged tissue.<sup>1,2,3</sup> The innate nutrient-rich endogenous growth factors present in the tissue are preserved using VIVEX's Integrity Processing method. The allograft can be held in place with dermal glue. The practice has seen favorable outcomes with a single allograft application.

## ▶ CLINICAL HISTORY

A 62-year-old male was admitted after an electrocution. He underwent amputation of his right upper extremity and grafting of full thickness defects on the lower extremities. Two weeks post-op, the autograft donor site was not healing after the application of sprayed epidermal autografts. The focus of this case study will be on the treatment of autograft donor site.



2 Weeks Post Autograft Harvest

## ▶ APPLICATION OF VIVEX BIOLOGICS DUAL LAYER AMNIOTIC ALLOGRAFT

Due to the slow healing of the autograft donor site, a dual layer amniotic allograft was applied. The practice used dermal glue to secure the allograft in place, applied Bacitracin over the amnion tissue to maintain moisture, and did not need an external dressing.



Dual Layer Amnion Allograft Application with Dermal Glue

## ▶ FINAL OUTCOME

At post-op day 6, the autograft donor site treated with a single dual layer amnion allograft application had healed.



6 Days After Application

## ▶ CONCLUSION

The practice has successfully used the VIVEX Biologics dual layer amnion allograft to treat slow healing autograft donor sites because the allograft is easy to apply, conforms to the autograft donor site and can be held in place with dermal glue. The practice has seen successful healing with one application of the dual layer amnion allograft.

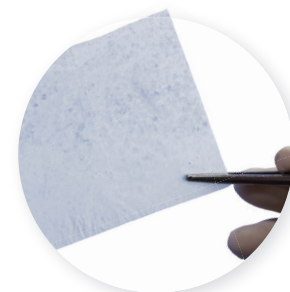
## ▶ DUAL LAYER AMNION ALLOGRAFT

Derived from the amnion layer of the placental membrane

Approximately 2X thicker than traditional single layer amnion

The double-sided membrane features 2 layers of amniotic tissue, oriented with the epithelial layer facing outward, allowing for **omnidirectional** implantation of the allograft.

*Proprietary dual layer technology*



1. Rowlatt, Ursula. "Intrauterine Wound Healing in a 20 Week Human Fetus." Virchows Arch. A Path. Anat. and Histol, 1979, vol. 381, pp. 353-361.  
2. Coolen, Neeltje A., et. al. "Comparison Between Human Fetal and Adult Skin." Archives of Dermatological Research, 2010, vol. 302, pp. 47-55.  
3. Niknejad, Hassan, et. al. "Properties of the Amniotic Membrane for Potential Use in Tissue Engineering." European Cells and Materials, 2008, vol. 15, pp. 88-89.

