



Treatment of Non-Healing Traumatic Dorsal Foot Wound Using a Chorion-Free Human Amniotic Tissue Allograft: a Case Report

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Introduction

Non-healing chronic wounds cause tremendous suffering and debilitation. Initiation and promotion of granulation tissue is critical for an ultimate epithelialization and complete wound closure. We present a case where the efficacy of PalinGen® Hydromembrane, a chorion-free human amniotic membrane allograft, was demonstrated in treating a traumatic non-healing wound after failure of traditional care.



Figure 1: Initial laceration before repair in Ed

Figure 2: Skin flap after suture removal turned necrotic



Methods

A 42-year-old female with a traumatic laceration after a motorcycle accident to the right dorsal midfoot was treated with traditional care over 10 weeks. The wound remained necrotic and non-healing after multiple attempts. A decision was made to treat the wound with an alternative biological dressing using PalinGen® Hydromembrane. A total of 4 applications of PalinGen® Hydromembrane were utilized over a period of 4 weeks and the wound healing was assessed in terms of reduction in wound size.

Figure 3: Painful necrotic skin flap first seen in Podiatry clinic



Figure 4: Local wound care with enzymatic debridement for 4 weeks

Results

The traumatic laceration was necrotic and non-healing 10 weeks after initial standard of care treatments. A total of four weeks of enzymatic debridement to prepare the wound base and four applications of PalinGen Hydromembrane® were utilized. The first PalinGen® Hydromembrane showed nearly 100% granular tissue in only 2 weeks with no pain to the area. The wound decreased to 0.4 cm in diameter after the last application. The wound went on to complete closure two weeks following the fourth application with no adverse events or safety concerns. The patient's wound site remains closed to date.

Figure 5: After First application of PalinGen® Hydromembrane



Figure 6: Wound base continues to fill in with 2nd application of PalinGen® Hydromembrane

Conclusions

The outcome of this study supports the use of a chorion-free amniotic tissue allograft as a safe and effective therapy in hard to treat traumatic non-healing wounds. The favorable outcomes in this study also suggests PalinGen® Hydromembrane as a cost-effective alternative option.

Figure 7: After 4 applications traumatic wound healed using PalinGen® Hydromembrane



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Acknowledgements

This material is the result of work supported with the resources and the use of facilities at the Southern Arizona VA Health Care System.
Clinical background and product support provided by AmnioTechnology, LLC