

USE OF DEHYDRATED AMNIOTIC MEMBRANE ALLOGRAFT ON RECALCITRANT LOWER EXTREMITY WOUNDS

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OBJECTIVE

This clinical case series illustrates 3 chronic wounds in patients with diabetes, trauma with infection, and/or vascular disease which were not healing in spite of interventions of antibiotics, negative pressure wound therapy (NPWT), and surgical shoes. This series is to illustrate the effectiveness of dehydrated amniotic membrane allograft* (DAMA) dressings to facilitate healing of these recalcitrant wounds.

METHODOLOGY

Case # 1: 52 yo male with right post I & D of right dorsum foot wound with history of abscess with strep. Previous treatment had included NPWT. Wound initially measuring 8.9 cm x 1.3 cm x 0.2 cm. Wound healed in 12 weeks with 5 applications of DAMA.

Case # 2: 66 yo male with a right 4th toe amputated due to PVD. History of treatments include antibiotics and NPWT. DAMA was applied with no off-loading. Wound healed in less than 28 days after only 2 applications of DAMA.

Case # 3: 64 yo female with right plantar diabetic foot ulcer below 5th metatarsal. Patient initially wore surgical shoe then Roll on Total Contact Cast (TCC System™). Wound healed in 9 weeks after 4 applications of DAMA.

RESULTS

Results of these cases demonstrate the positive impact of DAMA on wound healing and support its utilization in wound care, particularly in wounds that have stalled and when complete healing is a challenge due to diabetes and other conditions.

CONCLUSIONS

DAMA provided effective healing for these very challenging diabetic and lower extremity wounds in a very timely, efficient manner with closure achieved in 2 to 5 applications of the dressing.

References:
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TCC-E2® Total Contact Casting System, Derma Sciences Inc, Princeton, NJ
™ ADMPTCH System, Gavick, UK

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CASE 1



6-2-14
Wound initially measured 8.9 cm x 1.3 cm x 0.2cm.
First DAMA application.



7-14-14
Wound measured 3.9 cm x 1.3 cm x 0.1 cm
with 4th DAMA application.



7-28-14
Fifth application of DAMA.
Wound measured 2.5 cm x 0.5 cm x 0.1cm.



9-28-14
Wound healed in 12 weeks with 5 applications.

CASE 2



6-2-14
Baseline measurement was 0.3 cm x 0.9 cm x 0.2 cm.
First application of DAMA.



6-16-14
Second application of DAMA. Wound had increased
to 1.0 x 0.5 x 0.4 cm, as the physician did sharp
debridement to freshen the wound.



6-30-14
Third application of DAMA was scheduled,
however the wound was healed.

CASE 3



6-2-14
First application of DAMA. Baseline measurement was
2.8 cm x 2.7 cm x 0.3 cm with sharp debridement .



6-16-14
Second application of DAMA. Wound measured 1.7 cm x
1.7 cm x 0.2 cm. Roll on TCC System was applied.



6/30/14
Third DAMA application. Wound measured 1.4 cm x
1.5 cm x 0.2 cm. Roll on TCC System was applied.



7-14-14
Fourth DAMA application. Wound measured 0.5 cm x
0.5 cm x 0.1cm. Wound was cleansed, DAMA applied,
cellulose acetate and coated with a petrolatum emulsion,[™]
and Roll on TCC System were applied. Roll on TCC System
was scheduled for removal and reapplication on 7-21-14.



7-28-14
Wound healed in 9 weeks after 4 applications of
DAMA and Roll on TCC System starting on 6-8-14.
The patient had the wound for 38 weeks prior to DAMA.