

Use of Dehydrated Amnion/Chorion Membrane (dACM) in a Slow Healing Trauma Wound

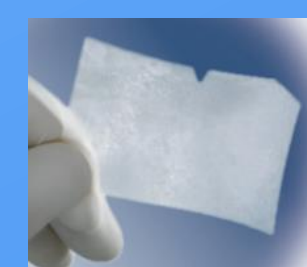
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*Nushield®, Organogenesis, Inc., Canton MA

UPMC Wound Healing Services at UPMC Passavant

Background:

- Allograft skin substitutes are currently approved for reimbursement by Centers for Medicare and Medicaid Services (CMS) and most insurances for:
 - venous leg ulcerations
 - diabetic foot ulcers
- Use of allograft skin substitutes not approved for reimbursement for traumatic injury
- May be beneficial for optimal wound healing in traumatic wounds

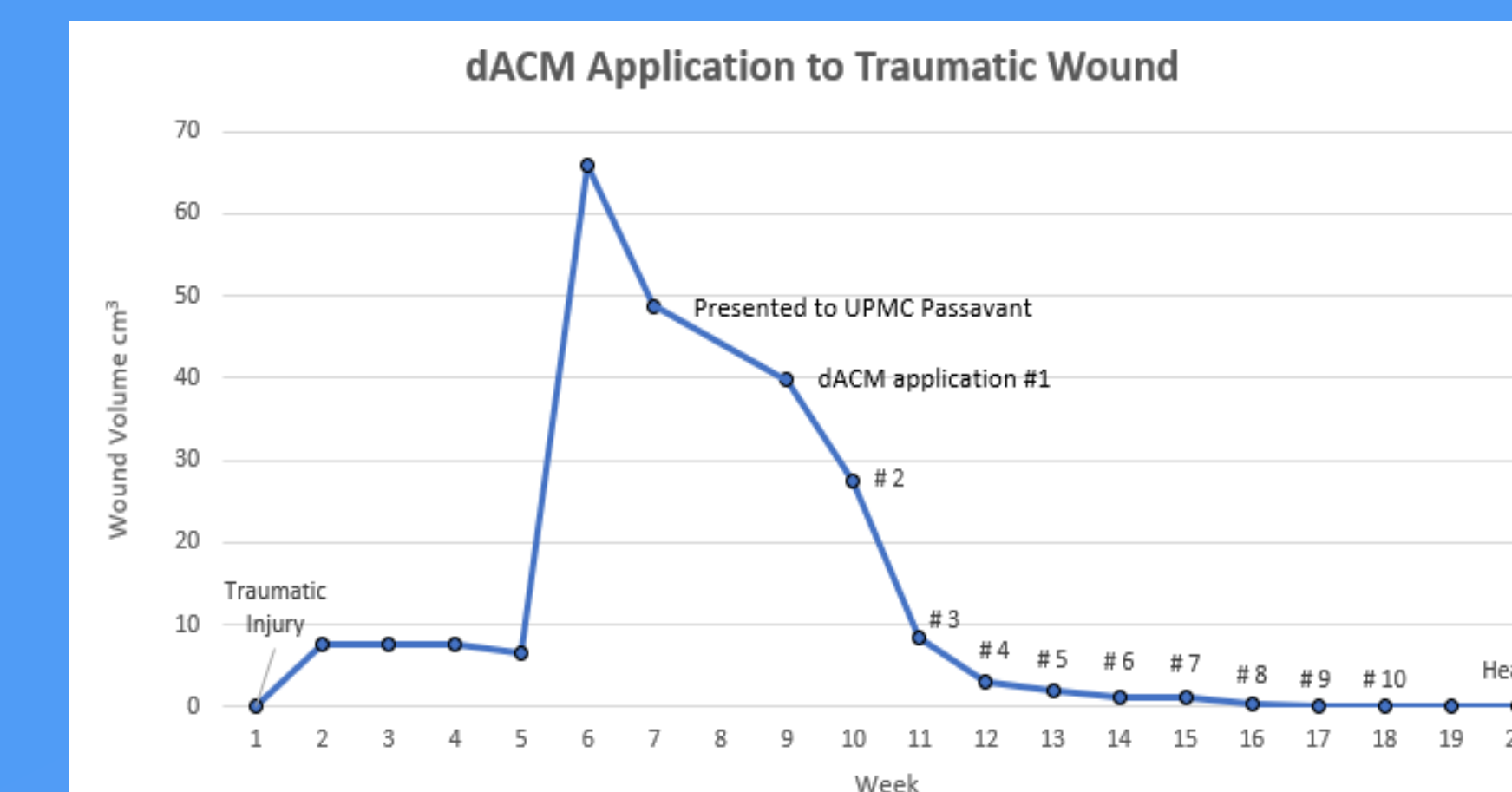


Aim:

- The aim of this case study is to report the treatment effect of dehydrated amnion/chorion membrane (dACM*) in the treatment of a slow-healing, chronic leg wound secondary to trauma.

Case Study:

- 85 year old female with body mass index of 33.4, peripheral vascular disease, chronic lower leg edema, and warfarin therapy sustained a laceration/hematoma on the middle third of the right lower leg during a low energy fall.
- The original wound measurement: 5 x 15 x 0.1 cm 10 days post injury
- Nine weeks of treatment at outside facility
- Presented to the UPMC Passavant Wound Healing Services with a chronic wound 4.4 x 10.0 x 0.1 cm with a necrotic base
- Ankle brachial index measurements = 0.61
- Wound was debrided of hematoma and devitalized tissue
- Post-debridement 5 X 7.5 X 1.7 cm
- dACM therapy initiated when the wound base was developing granular tissue
- Application protocol of dACM, wound gel, versatel, steri-strip, foam dressing and tubigrip. Kept in place for a week
- 10 weekly dACM per protocol
- Complete wound healing :
 - 20 weeks post injury
 - 11 weeks after completion of dACM treatment series



Conclusion:

The use of dACM, which consists of extracellular matrix proteins, growth factors, and cytokines, appears to be advantageous in the management of slow-healing trauma wounds. This patient improved with the use of dACM, but more research is needed to evaluate the benefits of dACM in trauma wounds.



Week 1



Week 1



Week 7
4.3X9X1.7

Presented to the UPMC
Passavant Wound
Healing Services



Week 10
4.0X6.0X0.9



Week 12
3.6X5.2X0.4



Week 16
0.8X1.3X0.1



Week 17
0.4X0.6X0.1



Week 18
0.2x0.2X0.1



Week 20
HEALED



1 year later
HEALED



1 year later
HEALED