# Case Series Using Ovine Extracellular Matrix for the Correction of Stalled Wounds

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	Results	3			
e a limited capacity for due to missing or lar matrix (ECM). For caffolds may improve prowth and promote wine derived ECM <sup>†</sup> mporary scaffold to amaged ECM. This as conducted to acy of clinical e derived ECM in a unds.	Case Study 1		Case Study 2		Case Stu
	Patient: 67 year old male Medical History: Neuropathic diabetic with a below knee amputation on right side, chronic osteomyelitis Wound Description: Wagner grade 3 DFU on left foot (2 years old) Previous Treatments: Surgical debridement, wound stalled post-op		Patient: 47 year old female Medical History: Neuropathic diabetic Wound Description: Third degree burn compounded by Wagner 3 DFU (3-4 years old) Previous Treatments: GV/MB, foam, weekly debridement Week 0:		Patient: Wound I old)
					Week 0: 10 x 6.7 Debrider GV/MB.
	Week 0: 6.4 x 2.8 cm. Hyperkerototic wound edge, pale pink centre.		6 x 1.1 cm. ECM, GV/MB, off loading shoe.		GV/MD.
tients were managed ations of ovine ECM in V/MB* for a duration	ECM, GV/MB, crow walker.			K AN	Week 5: 6.6 x 3.4
	Week 2: 6.4 x 4 cm. Red granulation tissue.	1. 28 m	Week 2: 2.2 x 0.3 cm. ECM, GV/MB,	CAN	ECM inco epithelia ECM, GV
vine derived ECM in wound size and on and epithelial e average size of the d by approximately technology is a the wound healing	ECM, GV/MB, crow walker.		off loading shoe.	MAR	
	Week 8: 5.7 x 2.7 cm. Granulation tissue, ECM incorporation. ECM, GV/MB.		Week 6: Wound closed		Week 7: 5.1 x 3.7 Epithelia ECM, GV Wound s
losures	Wound size reduced by 14%				reduced

#### Introduction

Stalled wounds have a limited capacity for remodelling, partly due to missing or damaged extracellular matrix (ECM). For such wounds ECM scaffolds may improve the rate of tissue regrowth and promote wound closure. An ovine derived ECM<sup>†</sup> can function as a temporary scaffold to replace missing or damaged ECM. This prospective study was conducted to determine the efficacy of clinical applications of ovine derived ECM in a variety of stalled wounds. Results

### Methods

Wounds of three patients were managed using weekly applications of ovine ECM in combination with GV/MB\* for a duration of 7 to 9 weeks.

#### Conclusions

The application of ovine derived ECM resulted in reduction in wound size and enhanced granulation and epithelial tissue. At 4 weeks the average size of the wounds had reduced by approximately 39%. The ovine ECM technology is a valuable addition to the wound healing tool kit.

## References and Disclosures

Financial support was provided by Aroa Biosurgery Limited (New Zealand)

<sup>†</sup>Endoform Natural Dermal Template; <sup>°</sup>Hydrofera Blue; ww.appulsemed.com

## e Study 3

ent: 81 year old male und Description: Skin tear Payne-Martin III (2 weeks

e**k 0:** c 6.7 cm. pridement, ECM, MB.



ek 5: x 3.4 cm. 1 incorporation, helial cells forming. 1, GV/MB.



ek 7: x 3.7 cm. helial tissue. 4, GV/MB. und size uced by 72%

