Clinical Evaluation of an Extracellular Matrix Graft for the Surgical Management of Hurley Grade III Hidradenitis Suppurativa

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INTRODUCTION
Hidradenitis suppurativa (HS) is a chronic inflammatory disease resulting in non-healing and infected tissue. Hurley Grade III HS benefits from surgical intervention involving wide excision of the diseased tissue then reconstruction. In this case series an ovine forestomach matrix (OFM) graft was used as part of the surgical reconstruction. OFM has been shown to modulate inflammation, stimulate blood vessel formation, promote scaffold inflill and undergo complete remodeling [1,2]. The aim of utilizing the OFM graft was to reduce post-op complications and recurrence by addressing the underlying chronicity and to quickly build healthy well-vascularized tissue.

METHODS
A total of 5 patients with Hurley Grade III HS underwent 6 surgical treatments using the OFM graft. The graft was used either as a dermal substitute (n=3), or as an implant under a fasciocutaneous flap (n=3).

RESULTS
OFM grafts used as dermal substitutes became infiltrated from surrounding tissue and appeared granulated after 1 week with complete granulation at 2-4 weeks and re-epithelialization at 8-12 weeks. OFM graft implanted prior to flap reconstruction resulted in healing of the surgical sites by 12 weeks. No recurrence of HS was observed in all cases.

REFERENCES AND DISCLOSURES
Product was provided by Aroa Biosurgery Limited (New Zealand); Myriad (Aroa Biosurgery Limited, New Zealand); Endoform Natural (Aroa Biosurgery Limited, New Zealand).