Monofilament Debridement: A Synergistic Method for Rapid **Removal of Devitalized Tissue**

Traci Brackin, DNP, APRN, FNP-BC, CWOCN, CFCN Heath Tunnell, MSN, APRN, FNP-BC

INTRODUCTION

Different debridement of types methods are used based upon many different factors including patient pain tolerance, size, condition, and etiology of the wound. Similarly, efficiency of debridement method and practitioner limitations are involved in the decision as well (Hartmann, 2016). As healthcare providers, we should consistently be aware of different types of debridement methods and how they may work synergystically for appropriate wound bed preparation to promote faster wound healing.



Collagenase and MFD



Maryville, Tennessee

AIM

To investigate the synergistic use monofilament debridement of (MFD) in conjunction with three types of different common debridement methods -enzymatic conservative (ED)sharp debridement (CSD), and autolytic debridement (AD) in order to determine the reduction of devitalized tissue and improve overall effectiveness of wound management.

METHODS

Three patients with recalcitrant wounds of similar condition were with the above managed mentioned debridement methods in outpatient clinics and skilled care settings. In this small study a monofilament debridement pad was introduced to improve overall effectiveness. The study period was four weeks with dressing changes three times per week or daily if enzymatic debridement used. Photographs were was taken.



Debric Enzv

Conse

Aut



RESULTS

Before Monofilament Debridement



After Monofilament Debridement



After Conservative Sharps Debridement with curette

monofilament of the Use debridement device was found to work synergistically with all three types of debridement modalities efficiently and effectively to remove devitalized tissue safely and painlessly. There was noted reduction of devitalized tissue, which allowed for appropriate wound bed preparation and healing environment.

lement thod	Wound Size Beginning	Wound Size End	Necrotic Tissue Beginning	Ν
matic	13.5 x 8.4 x UTD + tunneling	9.5 x 7 x 3.5 no tunneling	90%	
rvative arps	3.5 x 4.9 x 0.2 + undermining	3 x 4 x 0.2 no undermining	50%	
olytic	1.5 x 1 x 1.3 + tunneling	0.8 x 0.8 x 0.1 no tunneling	100%	

Autolytic debridement with GV/MB in PVA Foam

Society, Oxford

CONCLUSION



REFERENCES

- Baharestani M, Gottrup F, Holstein P, Vanscheidt W (eds) (1999) The Clinical Relevance of Debridement. European Tissue Repair
- HARTMANN. (2016). A new perspective on wound cleansing, debridement and healing.
- British Journal Of Nursing, 25(9), 494-497.
- Strohal, R., Apelqvist, J., Dissemond, J. et al. EWMA Document: Debridement. J Wound Care. 2013; 22 (Suppl. 1): S1–S52. Vowden P, Vowden KR, Carville K (2011) Antimicrobials made easy. Wounds Int 2(1): http:// tiny.cc/383t9 (accessed 8 August 2011) Weir D, Scarborough P, Niezgoda JA (2007) Wound debridement. In: Krasner DL, Rodeheaver GT, Sibbald RG, eds. Chronic Wound Care: A Clinical Source Book for Healthcare Professionals. 4th edn. HMP Communications, Malvern: 335–47