

# **CASE SERIES: REGENERATING AGENTS IN REGENERATING CHRONIC WOUND**

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## Aim:

Extracellular Matrix (ECM) integrity is important in maintaining normal tissue functions.<sup>1</sup> Dysregulation or destruction of ECM components is commonly associated with chronic wounds.<sup>1</sup> Heparan sulfate (HS) is a key component of the ECM. The degradation following tissue injury will impair the wound healing process. ReGeneraTing Agents (RGTA) are polysaccharides that replace degraded HS in injured tissues.<sup>2</sup> The article aims to share successful cases of managing chronic wounds using RGTA.

## Methods:

The cases are chronic non-healing wounds that were referred from a nearby hospital.

- **Case 1:** A 72-year-old gentleman presented with non-healing wounds on the posterior side of both ankles. He had visited multiple orthopedic surgeons and used various dressing products.

- **Case 2:** A 47-year-old gentleman presented with a non-healing post above-knee amputation stump. He was started on negative pressure therapy concurrently.

- **Case 3:** A 70-year-old lady presented with a diabetic foot ulcer (DFU) at the dorsal aspect of the right foot.

- **Case 4:** A 47-year-old lady with uncontrolled diabetes presented with DFU on the first left big toe.

All cases were prepared according to standard wound care protocol and then sprayed with RGTA before applying the outer dressing. RGTA were reapplied every 4 days

## Results

All cases achieved remarkable progress in healing.

## Conclusions:

RGTA promotes wound healing in most chronic wounds, and it can be used concurrently with various other wound care modalities.<sup>3</sup> RGTA is recommended for those with chronic wounds.

**Keywords:** Heparan Sulfate, RGTA, Chronic wounds, NPWT, Maggot Therapy

## References:

1. Barritault, D., Gilbert-Sirieix, M., Rice, K. L., Sineriz, F., Papy-Carcia, D., Baudouin, C., Desgranges, P., Zakine, G., Saffar, J.-L., & Neck, J. V. (2017). RGTA or ReGenerating Agents mimic heparan sulfate in regenerative medicine: from concept to curing patients. *Springer*, (34), 325-338.
2. Farrugia, B. L., Lord, M. S., Melrose, J., & Whitelock, J. M. (2018). The Role of Heparan Sulfate in Inflammation, and the Development of Biomimetics as Anti-Inflammatory Strategies. *Journal of Histochemistry & Cytochemistry*, 66(4), 321-336.
3. Barritault, D. (2019). Overview of 10 years of practice with CACIPLIQ20 matrix therapy as a healing agent for hard to heal wound: Efficacy, cost-effectiveness and future perspectives. *Elsevier*.

Case Studies 1 • Right Ankle (Posterior)			• Left Ankle (Posterior)		
					
Initial Presentation	After 4 applications of RGTA	After 8 applications of RGTA	After 4 applications of RGTA	After 8 applications of RGTA	
Case Studies 2					
					
Initial Presentation	After bedside sharp debridement	Applying Negative Pressure Wound Therapy (UNO+) and RGTA	After 4 applications of RGTA (UNO+) was off after the 2nd application of RGTA due to improvement of the wound		
Case Studies 3			Case Studies 4		
					
Initial Presentation	After Maggot Therapy	After 4 applications of RGTA	Initial Presentation	After bedside debridement on the day of presentation	After 1 application of RGTA

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