

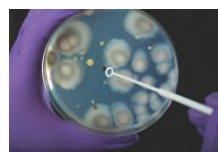
IMPROVING BIOBURDEN CONTROL AND MOISTURE MANAGEMENT: A PROSPECTIVE MULTI-CENTER CASE STUDY EVALUATING THE WOUND HEALING EFFECTIVENESS OF A NOVEL PHARMACEUTICAL OINTMENT

Presented By: Keyur Patel, DO
CO-Medical Director – The Wound Healing & Hyperbaric Center at ACMH Hospital
SerenaGroup™
Kittanning, Pa



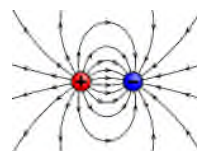
Introduction

- Key Elements of wound bed preparation¹
 - Reducing Bacterial Bioburden
 - Maintaining a moist environment
- A novel pharmaceutical ointment provides both the key elements 1 one product.
- A multi-center case series assessed the effectiveness of the ointment in the promotion of wound healing.



Bacterial Bioburden Reduction

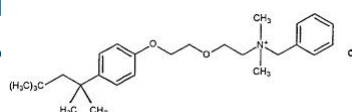
- Basic Laws of Physics – Opposites Attract
- The ointment is formulated with a multiple-valent complex with positively- charged ions.
- The outer membrane of bacteria is negatively-charged.



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Bacterial Bioburden Reduction

- The ointment facilitates a faster directed delivery of the active antiseptic, 0.2% Benzethonium chloride
- In-vitro studies have suggested it may be far more effective than silver products.



Activated Minerals Speed Delivery



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Moisture Control

- Ointment provides long-lasting moisturization without fear of maceration.
- Moisture management achieved with but not limited to 2 key ingredients:
 - Jojoba Seed Oil
 - Organic Beeswax



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Methods

- At 4 wound care centers across the US, 30 adult patients with chronic, non-healing wounds of various etiologies received the ointment daily, except wounds under compression therapy it was applied 1 to 3 times per week.
- Patients were followed for up to 12 weeks.



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Methods

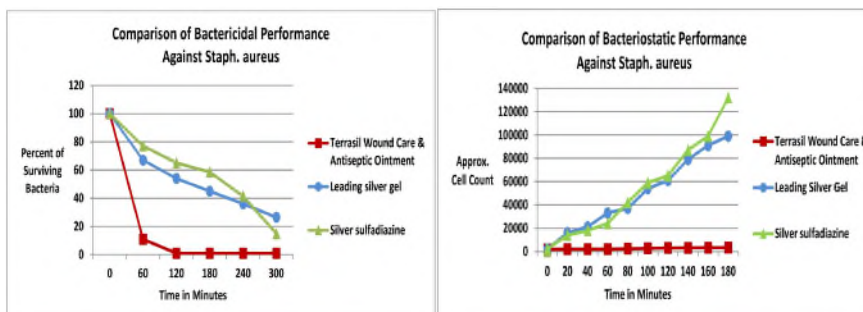
- Wound characteristics were collected including length, width, and depth measurements.
- Most patients were able to self-administer the ointment.



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Results

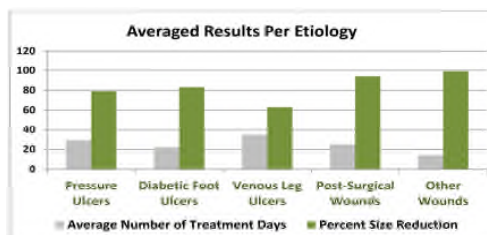
- Bioburden control evidenced by visual observation and random quantitative cultures.



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Results

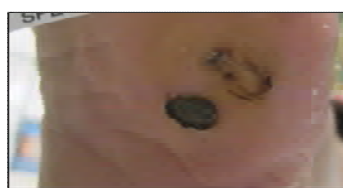
- All patients demonstrated a reduction in wound size
- An average of 84% surface area reduction noted within an average of 25 days of treatment



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Results



Day 1	Day 7
<p>Description: Wagner I Diabetic Foot Ulcer 0.2 x 0.2 x 0.1 cm on Left Plantar Foot with 100% Red Granulation Tissue. Photo is post-debridement.</p> <p>Background: The patient had the wound for 9 months before starting the Terrasil treatment. Previous treatment included silver alginate dressing and offloading.</p>	<p>Terrasil Treatment: Patient self-applied ointment 1X/day.</p> <p>Results: After 1 week wound was 100% closed.</p> <p>Concurrent Therapy: Dry dressing and offloading.</p> <p>Clinician Comment: Terrasil was around 4X faster than other treatment options.</p>

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Results



Day 1	Day 63
<p>Description: VLU on left medial malleoli, 4.1 x 2.6 cm</p> <p>Background: The patient had the wound for approximately 8 months before starting the Terrasil treatment. Previous therapy included 4 layer compression wraps, wound contact layer, mepilex foam, polymem.</p>	<p>Terrasil treatment: Patient applied the Terrasil ointment 1X/week at dressing change.</p> <p>Results: After 63 days, wound was reduced in size by 100%.</p> <p>Concurrent therapy: compression wrap, wound contact layer, telfa.</p> <p>Clinician Comment: Terrasil was around 3X faster than other treatment options.</p>

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Results



Day 1	Day 27
<p>Description: Diabetic Foot Ulcer to the Plantar Region of the Right Great Toe with tendon exposed; 1.5 x 2.0 cm.</p> <p>Background: The patient had the wound for 9 months before starting the Terrasil treatment. Previous therapies included medical honey, topical silvers and non-compliant offloading.</p>	<p>Terrasil treatment: Patient applied the Terrasil ointment once daily for 27 days.</p> <p>Results: After 27 days the wound measured 1.0 x 0.8 and was 73% closed, with the tendon no longer exposed.</p> <p>Concurrent therapy: Offloading attempted but patient was very non-compliant.</p> <p>Clinician Comment: "Approximately 3 times faster, compared to offloading and other topical dressings."</p>

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Conclusion

- This new topical antimicrobial and moisturizing ointment may be employed to promote faster wound closure.
- This is achieved through reduction in bacterial bioburden and maintenance of a moist wound healing environment.



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Acknowledgements

- The SerenaGroup would like to thank Aspiera Medical, manufacturer of Terrasil Wound Care & Antiseptic Ointment, for an unrestricted grant as part of our case series initiative.



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References

1. Schultz GS et al. Wound be preparation: a systematic approach to wound management. *Wound Repair Regeneration* 2003 Mar; 11 Supple 1:S1-28.

