Elimination of Biofilms and Pathogens by the Rebalancing of the Wound Bed's Bioelectric Charge

Charles Andersen, MD, FACS, FSVS, MAPWCA; Robert G. Frykberg, DPM, MPH

AgFresh® – Moleculight Cases

The loss of the bioelectric balance in the wound bed leads to unresolved chronic wounds with inherent biofilms and bacterial colonization. The chronic wound bed is characterized as a negatively charged (anionic) environment. The negatively charged molecules include the membranes of bacteria, biofilms and the anchoring mechanism of the biofilm to the wound bed. In order to remove anionic obstacles to wound healing, a rebalancing needs to take place with the introduction of positively charged (cationic) nano-particle minerals that bind and inactivate anions through an electron attraction process.

McCord System

- Fentonite® a combination of cationic nano-particle minerals releases a unique balance of cations that have been proven to bind with the anionic biofilms and pathogens causing the loss of their ability to defend themselves due to their permanent membrane deconstruction.
- The following cases represent results utilizing the McCord System with Fentonite®

Clinic Protocol for McCord System

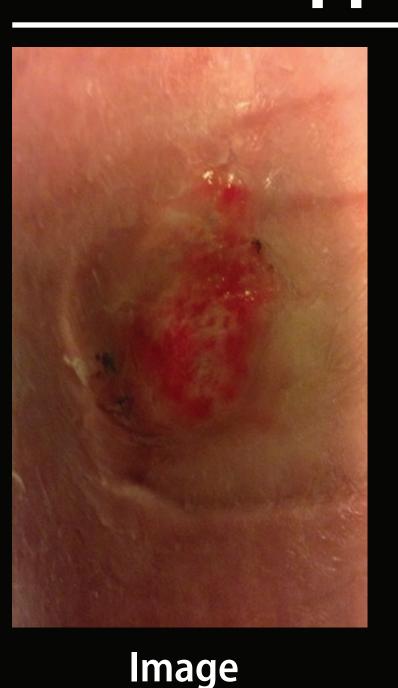
- Clean wound with non-ionic cleaner
- Baseline Moleculight scan
- Debride and cleanse with attempts to remove bacteria if possible (Only clean with non-ionic solution)
- Repeat bacterial scan
- Hydrate wound with BioCleanse[™]
- Apply BioRelese[®]
- Apply AGFresh®
- Apply secondary dressing and compression or off-loading if appropriate
- Change dressing twice per week
- With dressing changes clean with non-ionic cleaner and debride as necessary
- Scan for bacteria pre- and post-debridement

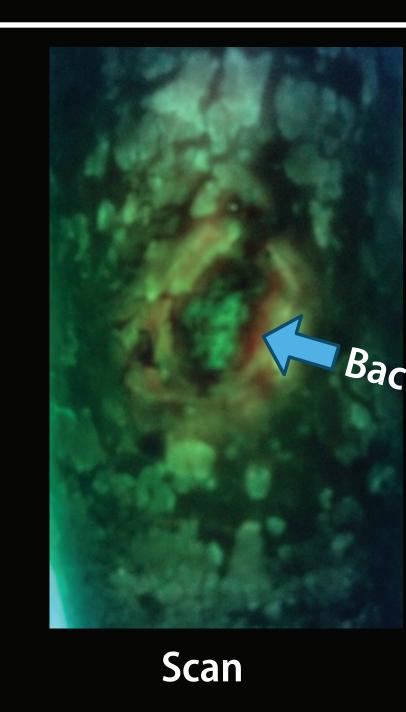
INVESTIGATOR AND IGAN ARMY MEDICAL CENTER Dr. Charles Andersen; MD, FACS, FSVS, MAPWCA Chief, Wound Care Service MAMC Clinical Professor; UW, USUHS

PATIENT - EC

- Chronic edema with an edema ulcer right leg
- Wound failed to progress with standard wound care
- 10/12/2023 Started on McCord System

EC – Pre-Application

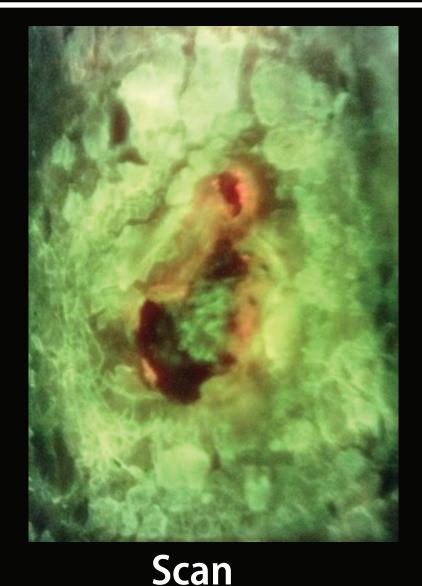


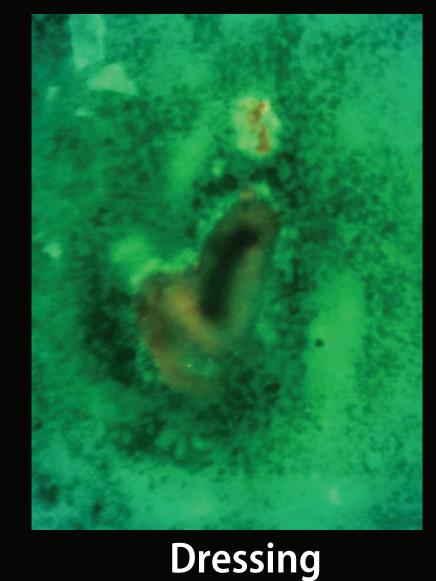


Wound cleaned and debrided and McCord System initiated

EC – 8 Days





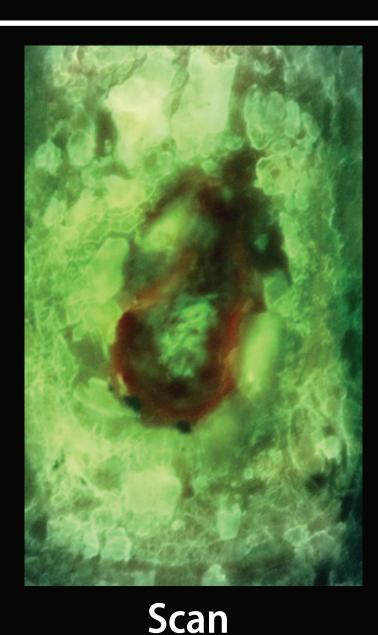


Wound cleaned and debrided with removal of bacteria. Wound re-dressed with McCord System. Two-layer Coban® wrap applied

EC – 12 Days

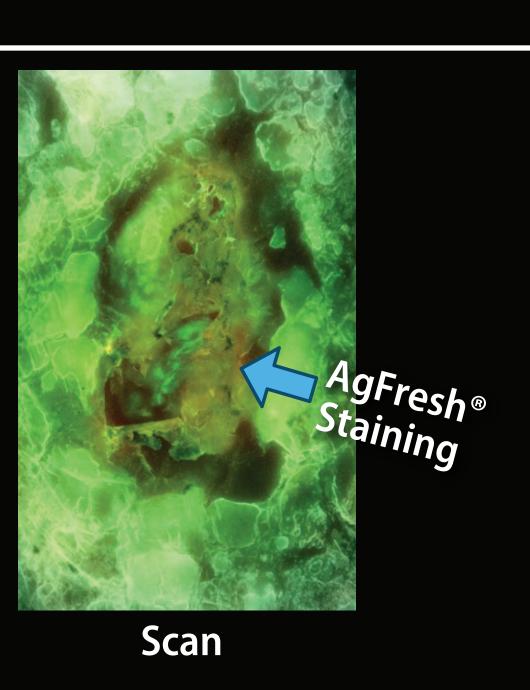


lmage



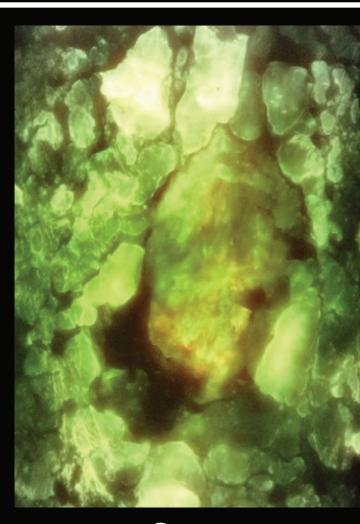
EC – 19 Days





EC-41 Days





Chronic lower extremity edema wound that healed in 41 days with the McCord System.

lmage

Scan