

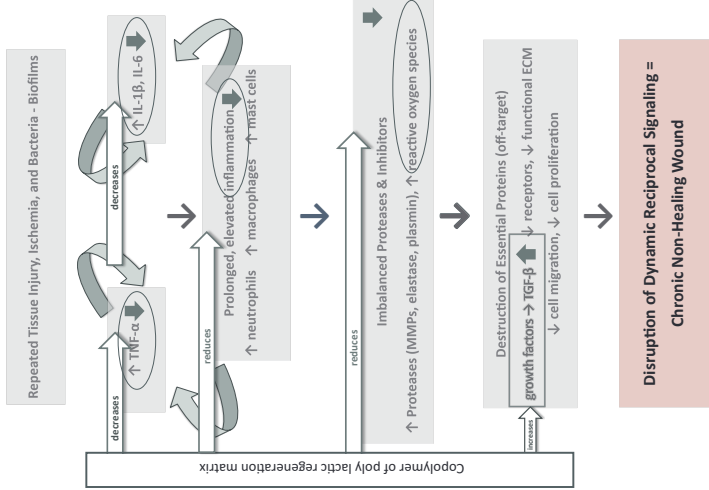
Day one use of poly lactic acid matrix for the use of highly complex wounds

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Introduction:

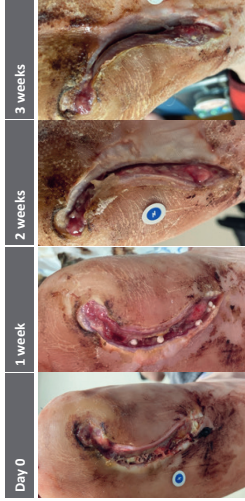
Some wounds are not going to fit the 4-week 40% wound closure rate. This is the group of wounds that was evaluated with a lactate-based wound matrix. The poly lactic acid matrix (PLAM) has four functions that allow this to be done in non-optimized wounds. The PLAM is bacteria static and stimulates vascular ingrowth, proliferation, attachment, and migration. The wound matrix was introduced at the first evaluation in the office. The PLAM has features that address both bacteria at the wound interface. The PLAM supports vascular ingrowth, cell proliferation, and migration.

Hypothesis of Chronic Wound Pathophysiology and the Effect of the Novel Matrix.



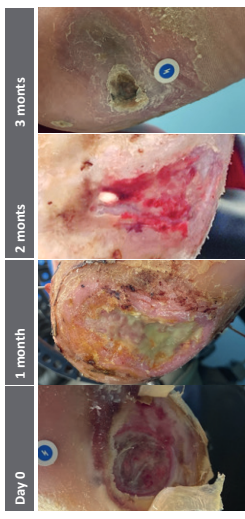
Method:

35 yr old female type 1 s/p I&D to plantar fascia no osteomyelitis



Scanning Electron Microscopy Images of the Novel Matrix

47 yr male type 2 PVD venous lymph smokes osteomyelitis



Conclusion:

After several patients were treated in this fashion. It was noticed that the fibrotic and necrotic wound beds were converted to granular wound beds at a rapid rate. There was significant depth fill with the proliferation of tissue that the PLAM supports. It appears that, due to the four functions of the PLAM (H-shift, cell proliferation, attachment, and migration) wounds were optimized at a much faster rate.

The use of the PLAM earlier in the wound healing pathway allowed for faster conversion of the wound bed and full epithelialization for healing of complex non-healing wounds.

Discussion:

The approach used is not indicated for every wound. This subset of wounds benefited from a more aggressive treatment approach. The unique features of the lactate molecule appears to support a rapid wound bed conversion. Thus, allowing for rapid healing. Cases were obtained from a limited uncontrolled patient group. Validation of this technique should be studied with definitive protocols to define the benefits of treatment with PLAM for this subset of wounds.

60 yr male Smoking, Cardiac Disease, Obesity, HTN, COPD, ETOH, Chronic Pain, Cellulitis

