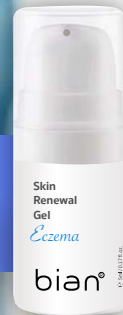




Skin Healing. Restore Life.



INTRODUCTION OF EGF



A NEW BREAKTHROUGH FOR ACCELERATING SKIN HEALTH

EGF has been recognized as an excellent wound healing agent due to its therapeutic function stimulating skin cell growth, proliferation and differentiation.

REFERENCE

Elisavet K. Tiaka, MD, Nikolaos Papanas, MD, Anastassios C. Manolakis, MD, and George S. Georgiadis, MD *Epidermal Growth Factor in the Treatment of Diabetic Foot Ulcers: An Update Perspectives in Vascular Surgery and Endovascular Therapy* 24(1) 37–44

1. Data on file
2. <https://incidecoder.com/ingredients/sh-oligopeptide-1>
3. Hyemin kim et.al. *Hyaluronate-Epidermal Growth Factor Conjugate for Skin Wound Healing and Regeneration*

INDICATION

ACUTE WOUND

- ✓ Surgical Wound
- ✓ Traumatic Wound
- ✓ SuperficialIII°, deepII° burnwounds
- ✓ SkinGraft

CHRONIC WOUND AND ULCER

- ✓ Diabeticfootulcer
- ✓ Pressure ulcer (Bedsore)
- ✓ Neuropathiculcer
- ✓ Venousulcer
- ✓ Arterialulcer
- ✓ Vasculiticulcer
- ✓ Malignantulcer



EGF IN CLINICAL PRACTICE

Focus on Wound Care

Epidermal Growth Factor in the Treatment of Diabetic Foot Ulcers: An Update

Elisavet K. Tiaka, MD¹, Nikolaos Papanas, MD¹, Anastassios C. Manolakis, MD², and George S. Georgiadis, MD¹

Perspectives in Vascular Surgery and Endovascular Therapy
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Abstract

Management of diabetic foot ulcers remains a rather challenging task. Epidermal growth factor (EGF) plays a central role in wound healing. It acts on epithelial cells and fibroblasts promoting restoration of damaged epithelium. However, its bioavailability is impaired in chronic diabetic foot ulcers. Current evidence suggests that application of human recombinant EGF in addition to standard treatment is able to achieve both partial and complete healing and to prevent foot amputations. Its efficacy has been tested at various concentrations and by various administration routes (topical application and intralosomal injection). Intralosomal injection has better availability on the deep wound layers, but pain at the injection site is a common complaint. Generally, adverse events have been minor to mild. Finally, numerous issues need to be further clarified before widespread use of EGF becomes possible in everyday practice. Such issues include optimal dosage and administration routes, characteristics of the ulcers most likely to heal (severity and ischemic/neuropathic or both), and cost-effectiveness.

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Advances in surgical applications of growth factors for wound healing

Shir Shimshoni, B.Sc., David Shoham, M.D.

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Epidermal growth factor therapy and wound healing—past, present and future perspectives

J Hardwick¹, D Schmaljohann, D Boyce, D Thomas

Affiliations + expand

PMID: 18581754 DOI: 10.1016/s1479-666x(08)80114-x

Abstract

The role of epidermal growth factor (EGF) has been extensively investigated in normal and pathological wound healing. It is implicated in keratinocyte migration, fibroblast function and the formation of granulation tissue. Since the discovery of EGF, the first growth factor to be isolated, over 45 years ago, growth factor therapy has progressed into clinical practice in the treatment of wounds. The investigation EGF in wound healing has progressed from the treatment of acute wounds, to its limited effect in chronic wounds. EGF is readily degraded in the chronic wound environment, but with the recent focus of research in new drug delivery systems that are able to protect and stabilise the protein, the potential healing effects of EGF are at the forefront of research. In this review, the history of EGF and wound healing research is considered, as are current and future therapeutic options.

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Growth Factors in Wound Healing – A Review

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The review is an overview of the literature of growth factors involved in cellular signaling pathways regulating the wound healing process. Understanding the biology of this mechanism is significant for optimizing therapeutic and research avenues in wound healing. The review highlights the emerging knowledge of growth factors which would enhance the possibility of these factors being the targets for wound care therapy. The significance of the onset and resolution of inflammation in the healing process is better understood clinically and a range of recombinant growth factors to combat this condition have been identified and used to accelerate healing process. The chemotactic and growth regulating factors act as triggers that take the cellular and biochemical components through the inflammation, proliferation, epithelialization, angiogenesis and tissue remodeling phases. Clinical conditions that create alteration in expression of these factors lead to slow and incomplete healing. The review emphasizes on the clinical use of synthetic and recombinant growth factors whose synergistic effects are remarkable. The review covers the specific signaling mechanisms involved in the regulation of these growth factor responses, specifically the PI3K/AKT, RAS/MAPK and JAK pathways, these could be potential targets for future research endeavours in this field.

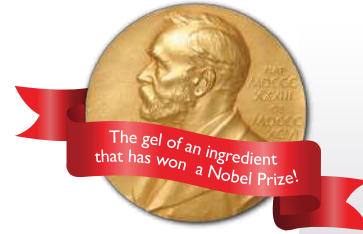
Keywords: Angiogenesis; Cytokines; Epithelialization; Inflammation; Growth factors; Wound healing.

Authors	Intervention	Function and location	Number of patients	Study	Outcome	Notes
Reese (20)	Application of epidermal growth factor to ulcer	Topical EGF (Strataderm)	12 patients with ulcers	DBRCT	Acceleration of the rate of healing	Not described
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Allen (20)	Application of epidermal growth factor to ulcer	Topical EGF (Strataderm)	22 patients with ulcers	DBRCT	Acceleration of the rate of healing	Not described
Reese (20)	Application of epidermal growth factor to ulcer	Topical EGF (Strataderm)	12 patients with ulcers	DBRCT	Acceleration of the rate of healing	Not described
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Allen (20						



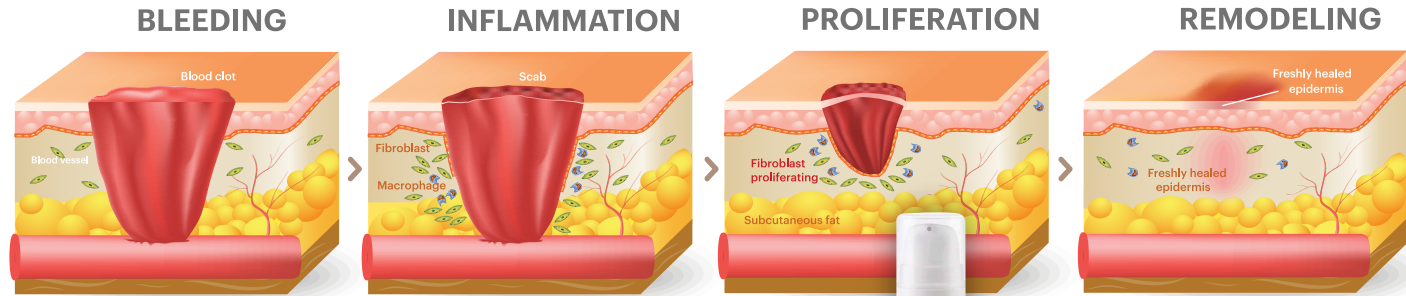
OUR UNIQUENESS

- ✓ EGF is an ingredient that has won a Nobel Prize
- ✓ Developed to speed wound recovery
- ✓ High concentration
- ✓ It can be stored at room temperature
- ✓ Long-lasting growth factor activity
- ✓ High encapsulation rate
- ✓ Good histocompatibility
- ✓ The product is all natural and non-toxic
- ✓ The product has not been genetic modified (non-GMO)





SKIN HEALING PROCESS



Promote cell proliferation,
migration and differentiation



Efficacy for skin healing
Speeds up wound healing
Natural and safe
Easy and convenient for application
Consistency in delivery positive result

EXCELLENT FEATURES



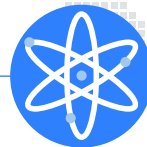
PURE

High-Purity EGF:
Free from contaminants
and impurities.



CONCENTRATED

Optimal EGF Concentration:
Delivers maximum
effectiveness.



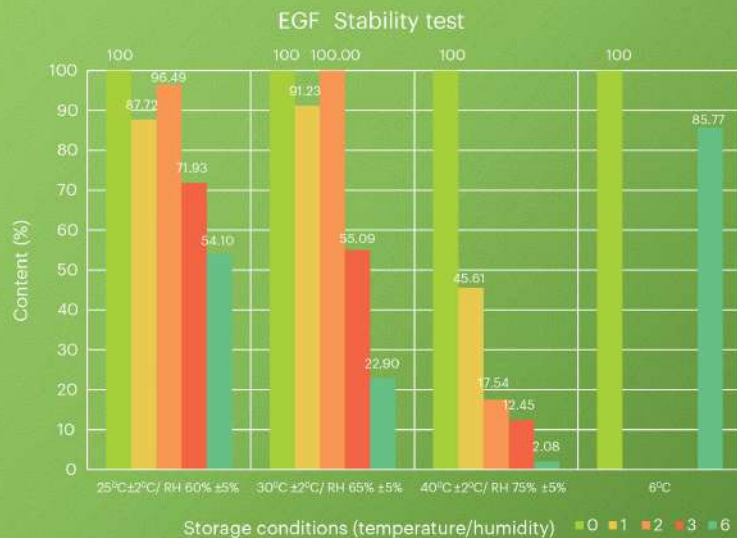
STABLE

Stable Formula:
Ensures consistent
efficacy over time.

References:

1. TQ Bui et. al. *Epidermal Growth Factors is Effective in the Treatment of Diabetic Foot Ulcers: Meta-Analysis and Systematic Review*. Int. J. Environ. Res. Public Health 2019, 16, 2584.
2. Elisavet K. Tiaka, MD, Nikolaos Papanas, MD, Anastassios C. Manolakis, MD, and George S. Georgiadis, MD. *Epidermal Growth Factor in the Treatment of Diabetic Foot Ulcers: An Update Perspectives in Vascular Surgery and Endovascular Therapy*.
3. MLA style: *The Nobel Prize in Physiology or Medicine 1986*. NobelPrize.org. Nobel Prize Outreach AB 2023. May 2023.
<https://www.nobelprize.org/prizes/medicine/1986/summary/>

Stability test



Female, 40 years old



Day 1



Day 3



Day 5



Adminstration

1. Clean the affected area thoroughly.
2. Apply the gel evenly using a sterile cotton swab.
3. Repeat twice daily until complete healing.
4. External use only.

Storage

Keep in a cool, dry place away from direct sunlight, heat and moisture.

Contraindication

Not suitable for skin cancer patients.



If the skin concerns unresolved, it will lead you to abandon many life plans.

We are here to help repair skin conditions with our Skin Renewal Gel-Eczema.

Everyone deserves the best and most innovative care!