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Role of stem cells in the management of chronic wounds - NCBI

A **review of literature** has been done regarding the **role of stem cells** in the ... reduction in area after 2-4 weeks of optimal **treatment** should be labeled as **chronic**.

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Review Article Stem cell therapy for chronic skin wounds in ...

Stem cell proliferation and signaling play crucial **roles** in every phase of the wound ... **Chronic wounds**. Growth factors. Personalized **medicine**. Skin. **Stem cells** ... and economic burden of **chronic wounds**: a protocol for a **systematic review**.

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Challenges in the Treatment of Chronic Wounds

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4528992>

Sep 01, 2015 · Since its introduction in the mid 1990s, **negative pressure therapy** has assumed a major role in the management of traumatic, **acute**, and chronic wounds, as well as for **stabilizing skin grafts, flaps, and surgical incisions**. 119–123 Since the early studies of **Morykwas et al.** and **Argenta and Morykwas** that demonstrated the numerous attributes of NPWT, a very large body of evidence has ...

Cited by: 470

Author: Robert G. Frykberg, Jaminelli Banks

Publish Year: 2015

Mesenchymal Stem Cells in Chronic Wounds: The Spectrum ...

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Apr 01, 2016 · Therefore, it is critical to find more effective and efficient **treatments** to reduce health costs and the social impact of **chronic wounds**. Mesenchymal **stem cell (MSC)-based therapy** has shown beneficial effects on enhancing tissue repair and regeneration in different diseases and could be a major breakthrough in wound healing.

Cited by: 73

Author: Marta Otero-Viñas, Vincent Falanga

Publish Year: 2016

The role of adult tissue-derived stem cells in chronic leg



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Stem cell therapy for chronic skin wounds in the era of ...

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Exosomes take this one step further by removing the **cells** from the equation entirely and **treating** directly with the secreted structures which impact **wound** healing. With the increased availability of various **cell** lines, in vivo experiments have begun to demonstrate the mechanisms and benefits of **stem cell treatments for chronic wounds** (Table 1).

Author: Elam Coalson, Elliot Bishop, Wei Liu, ... **Publish Year:** 2019

Mesenchymal Stem Cells in Chronic Wounds: The Spectrum ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4817558>

Apr 01, 2016 · MSC **treatment** promotes different stages of the **wound** repair process. 7 New studies with **cell-based therapies** to **treat** venous leg **ulcers**, diabetic foot **ulcers**, and pressure **ulcers**—the three main types of **chronic wounds**—are a major effort. However, there are some potential limitations to successful MSC **therapy**, and further research is needed.

Cited by: 73 **Author:** Marta Otero-Viñas, Vincent Falanga

Publish Year: 2016

Stem cells in burn wound healing: A systematic review of ...

<https://www.sciencedirect.com/science/article/pii/S0305417918302663>

The aim of this **systematic review** is to evaluate the **role of stem cell therapy** as a means to **promote burn wound healing**.

Cited by: 2 **Author:** Ali R. Ahmadi, Maria Chicco, Jinny Huang...

Publish Year: 2019

The role of adult tissue-derived stem cells in chronic leg ...

<https://onlinelibrary.wiley.com/doi/10.1111/iwj.12499>

The **role** of adult tissue-derived **stem cells** in **chronic leg ulcers: a systematic review** focused on

17

Name of Journal: *World Journal of Stem Cells*
Manuscript NO: 54938

Manuscript Type: SYSTEMATIC REVIEWS

Role of stem cell therapies in treating chronic wounds: A systematic review

 Raghuram AC *et al.* Stem cell therapies in chronic wounds

Anjali C Raghuram, Roy P Yu, Andrea Y Lo, Cynthia J Sung, Melissa Bircan, Holly J Thompson, Alex K Wong

Abstract

BACKGROUND

The impairment of cutaneous wound healing results in chronic, non-healing wounds that are caused by altered wound environment oxygenation, tissue injury, and permissive microbial growth. Current modalities for the treatment of these wounds inadequately address the complex changes involved in chronic wound pathogenesis. Consequently, stem cell therapies have emerged as a potential

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