

عنوان مقاله:

Evaluation of the Therapeutic Effect of Bone Marrow Stem Cells on Diabetic Wound Healing

محل انتشار:

چهارمین کنگره بین المللی و ششمین کنگره ملی زخم و ترمیم بافت (سال: 1398)

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خلاصه مقاله:

Introduction: Chronic ulcers in diabetic people have received much attention for various reasons, including disruption of the production process and secretion of factors affecting the wound healing process. The positive effect of Mesenchymal stem cells secretion on the healing process of some tissues has been reported to be effective in the treatment of diabetic wounds due to their metabolites and specific factors. This study aimed to determine the therapeutic effect of bone marrow stem cells in the treatment of diabetic ulcer. **Methods:** This is a review study through an advanced search of reputable scientific databases and websites, including Google Scholar, PubMed, Scopus and Science Direct. Keywords used include diabetes , stem cells , wound healing , bone marrow and articles reviewed from 2000 to 2019. The articles related to the study were also evaluated through the JBI tool. **Results:** A total of 40 articles were reviewed in English, 29 of which were related to the purpose of the study. Of the 29 related articles, 23 articles referred to the use of stem cells for the treatment of diabetic wounds, as well as six articles highlighted challenges in this area. The highest difference in the wound area and the percentage of healing was observed in the recipient and control groups, respectively. Immunohistochemical examination indicated the survival and activity of CD93 stem cells at the wound site up to 28 days after transplantation. **Conclusion:** the use of CD93 hematopoietic .stem cell transplantation in diabetic wounds has a significant effect on accelerating wound healing and wound healing

کلمات کلیدی:

wound healing , stem cells , diabetes

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