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- عنوان پایاننامه: تأثیر مغناطیسدرمانی موضعی بر نشانههای بالینی نوروپاتی محیطی بیماران مبتلا به دیابت نوع ۲ استاد راهنما: دکتر علی محمدپور
 - دستاوردها:
- ۱) سخنرانی در بیستودومین کنگره ملی سالانه دانشجویان علوم پزشکی و هشتمین کنگره بینالمللی دانشجویان علوم پزشکی

Title: The effect of local magnetic therapy on clinical symptoms of peripheral neuropathy in patients with diabetes type 2

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Authors: Ali Mohammadpour, Armin Nazeri, Mojtaba Kianmehr, Mohammad-Hadi Saeed Modaghegh

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۲) سخنرانی در پنجمین کنفرانس بینالمللی علوم کشاورزی، گیاهان دارویی و طب سنتی

Title: The effect of local magnetic therapy on neuropathic pain of patients with diabetes type 2: randomized clinical trials

March 6, 2022, at Avicenna International Community College LLC, Georgia

Authors: Ali Mohammadpour, Armin Nazeri, Mojtaba Kianmehr, Mohammad-Hadi Saeed Modaghegh

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- ۳) درخواست ثبت اختراع با عنوان "مچبند مغناطیسی پا جهت تسکین درد و نشانههای نوروپاتی محیطی دیابتی" به شماره اظهارنامه ۱۴۰۰۵۰۱۴۰۰۰۳۰۰۹۲۴۳
- 4) چاپ مقاله در مجله Diabetology & Metabolic Syndrome با ایمپکت فاکتور ۴

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Title: Effect of static magnetic field therapy on diabetic neuropathy and quality of life: a double-blind, randomized trial

Authors: Ali Mohammadpour, Armin Nazeri, Mojtaba Kianmehr, Mohammad-Hadi Saeed Modaghegh

Abstract Background

Diabetic peripheral neuropathy (DPN) is a common complication of diabetes mellitus (DM) that can cause annoying symptoms. To address this condition, several treatment approaches have been proposed, including static magnetic field (SMF) therapy, which has shown promise in treating neurological conditions. Therefore, this study aimed to investigate the effects of SMF therapy on symptomatic DPN and the quality of life (QoL) in patients with type 2 diabetes.

Methods

A double-blind, randomized, placebo-controlled trial was conducted from April to October 2021. Sixty-four DPN patients (20 males, 44 females) were recruited for the study via invitation. The participants were divided into two groups: the magnet group, which used magnetic ankle bracelets (155 mT) for 12 weeks, and the sham group, which used non-magnetic ankle bracelets for the same duration. Neuropathy Symptom Score (NSS), Neuropathic Disability Score (NDS), and Visual Analogue Scale (VAS) were used to assess neuropathy symptoms and pain. In addition, the Neuropathy Specific Quality of Life Questionnaire (Neuro-QoL) tool was used to measure the patients' quality of life.

Results

Before treatment, there were no significant differences between the magnet and sham groups in terms of the NSS scores (P = 0.50), NDS scores (P = 0.74), VAS scores (P = 0.17), and Neuro-QoL scores (P = 0.82). However, after 12 weeks of treatment, the SMF exposure group showed a significant reduction in NSS scores (P < 0.001), NDS scores (P < 0.001), VAS scores (P < 0.001), and Neuro-QoL scores (P < 0.001) compared to the baseline. The changes in the sham group, on the other hand, were not significant.

Conclusion

According to obtained data, SMF therapy is recommended as an easy-to-use and drug-free method for reducing DPN symptoms and improving QoL in diabetic type-2 patients.