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Postoperative pain after tooth extraction

Douleurs postopératoires après extraction dentaire

1. Systematic Reviews and Meta-Analysis

1.1. Generic Acupuncture

1.1.1. Falci 2024

Falci SGM, Fernandes IA, Guimarães MTBÁ, Galvão EL, de Souza GM, Al-Moraissi EA. Complementary and alternative therapies for managing postoperative pain after lower third molar surgery: a systematic review and network meta-analysis. Clin Oral Investig. 2024 Mar 28;28(4):231. https://doi.org/10.1007/s00784-024-05625-2.

Objective	The objective of this study was to evaluate the impact of complementary and alternative treatments on postoperative pain following lower third molar surgeries.
Methods	A comprehensive search of Electronic databases (Embase, MEDLINE via PubMed, and Cochrane Library) and grey literature was conducted up until May 2022. Randomized clinical trials investigating the effect of acupuncture, ozone therapy, laser (LLLT), drainage tube, kinesio-taping, ice therapy, and compressions on pain after LTM surgeries were included. The estimated mean differences (MD) for alternative therapies were pooled using the frequentist approach to random-model network meta-analysis NMA.
Results	Eighty-two papers were included in the qualitative analysis; 33 of them were included in the quantitative analyzes. NMA revealed that drainage tube and kinesio-taping were superior in controlling pain 24-hours postoperatively than no-treatment. At 48-hours follow-up, kinesio-taping and LLLT more effective than placebo and drainage tube; and kinesio-taping and LLLT were superior to no treatment. At 72 h postoperatively, ozone therapy was superior to placebo; and drainage tube, kinesio-taping, and LLLT were better than no treatment. At 7-days follow-up, ozone and LLLT were superior to placebo; and LLLT and kinesio-taping were superior to no treatment. The SUCRA-ranking placed drainage tube as top-ranking intervention at 48-hours (98.2%) and 72-hours (96%) follow-ups, and ozone (83.5%) at 7-days follow-up.
Conclusion	The study findings suggest that these alternative and complementary therapies may be useful in reducing postoperative pain after LTM surgeries, and may offer advantages when combined to traditional pain management methods.
Clinical relevance	Non-pharmacological therapies are gaining popularity among healthcare professionals and patients. This study found that some of these therapies, specifically kinesio-taping and drainage tube were effective in controlling postoperative pain after third molar surgeries. These findings have important implications for clinical practice, as they highlight the potential benefits of incorporating these therapies into postoperative pain management plans.

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