

Laser therapy in the control of oral mucositis: a meta-analysis.

[Article in English, Portuguese]

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Source

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Abstract

OBJECTIVE:

To conduct a systematic review and meta-analysis of the effectiveness of Laser Therapy in the prevention of oral mucositis (OM) in patients undergoing oncotherapy.

METHODS:

To this systematic review and meta-analysis a search was performed in MEDLINE, LILACS and Cochrane using the keywords "laser therapy" and "Oral mucositis." The case-control studies included were submitted to odds ratio (OR) analysis, which the cut-off point for statistic calculation was OM grade > 3. We carried out a meta-analysis by BioEstat 5.0, using the Random Effect DerSimonian-Laird statistical analysis.

RESULTS:

Twelve (studies were included in this systematic review, and the meta-analysis of seven of them showed that LT in patients undergoing oncotherapy is approximately nine times more effective in the prevention of OM grade > 3 than in patients without laser treatment (OR: 9,5281, confidence interval 95% 1,447-52,0354, p=0,0093).

CONCLUSION:

These data demonstrated significant prophylatic effect of OM grade > 3 in patients undergoing LT. Further studies, with larger sample sizes, are needed for better evaluation of the prophylatic effect of OM grade > 3 by LT.

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