

Usefulness Of Low-Level Laser For Control Of Painful Stomatitis In Patients With Hand-Foot-And-Mouth Disease

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OBJECTIVE: The aim of this study was to evaluate the usefulness of low-level laser therapy (LLLT) for the control of painful stomatitis in patients with hand-foot-and-mouth disease (HFMD).

BACKGROUND DATA: LLLT has been successfully applied to various painful oral mucosal diseases, although there have been few reports on LLLT for HFMD patients.

MATERIALS AND METHODS: Through a randomized double-blind placebo controlled trial, the painful period of HFMD stomatitis was compared between the LLLT group (n=11) and the placebo LLLT one (n=9), which had similar clinical backgrounds. The LLLT parameters supplied were as follows: wavelength of 830 nm, power of 30 mW, frequency of 30 Hz, and energy output of 1.1 J/cm². Acceptability and safety of the treatment were also evaluated.

RESULTS: The painful period was shorter in the LLLT group (4.0 +/- 1.3 days) than in the placebo LLLT one (6.7 +/- 1.6 days) with a statistically significant difference (p<0.005). The treatment was judged acceptable for 90.0% (18 of 20) of patients. No adverse events were observed in any cases.

CONCLUSION: LLLT is a useful method to control HFMD stomatitis by shortening the painful period, with its high acceptability and lack of adverse events.

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Successful Treatment Of Oral Lesions Of Chronic Lichenoid Graft-Vs.-Host Disease By The Addition Of Low-Level Laser Therapy To Systemic Immunosuppression

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We report a case of severe oral stomatitis caused by lichenoid chronic graft-vs.-host disease in which low-level laser therapy applied to the oral mucosa, in addition to standard systemic immunosuppressive treatment, resulted in quick healing and symptomatic relief.