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Comparative Study    [Eur Arch Paediatr Dent](#). 2011 Apr;12(2):93-5. doi: 10.1007/BF03262786.

# The effect of low level laser therapy on pain during dental tooth-cavity preparation in children

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## Abstract

**Aim:** To evaluate the effect of low level laser therapy on pain during cavity preparation with laser in paediatric dental patients.

**Study design and methods:** The study was carried out on 10 children aged 6 to 9 years old for a total of 20 primary molar teeth. For laser preparation an Er: YAG laser was used. Half of the preparations were treated by low level laser therapy (LLLT) before laser preparation and the remaining half without LLLT (non-LLLT) before laser preparation. All cavities were prepared by ER:YAG laser, restored with light-cured composite resin following the application of acid etching and bonding agent. Children were instructed to rate their pain on the visual analogue scale (VAS) from 0 to 5 points. Statistical analyses were performed using Mann Whitney U test.

**Results:** VAS Median (min-max) scores were 1(0-2) for LLLT and 3(1-4) for the non-LLT treated children. Between LLLT and non- LLLT groups results were statistically significant ( $p < 0.01$ ).

**Conclusions:** The use of LLLT before cavity preparation with laser decreased pain in paediatric dental patients.

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