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ONLINE ISSN : 1881-1361

PRINT ISSN : 0287-4547

Dental Materials Journal

Vol. 27 (2008) , No. 4 p.598-604

[\[Image PDF \(307K\)\]](#) [\[References\]](#)**The Effect of Different Light Sources on Microleakage of Bleached Enamel**[Bilinç BULUCU^{1\)}](#), [Ebru ÖZSEZER^{2\)}](#), [Ertan ERTAS^{1\)}](#) and [Gözde YÜKSEL^{1\)}](#)

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(Received July 24, 2007)

(Accepted March 9, 2008)

Abstract:

This study evaluated the immediate effects of halogen, LED (light-emitting diode), and plasma arc curing units on microleakage of bleached enamel. The buccal and lingual enamel surfaces of experimental groups (n=30) were bleached with 16% carbamide peroxide for a period of 10 days, with a daily contact time of 90 minutes. Box-shaped Class V cavities were also prepared on 60 extracted molar teeth (n=30, control group). For all groups, a composite resin (Grandio) was bonded with one of the two employed adhesive systems, Single Bond 2 or Prime & Bond NT. After restoration, all specimens were thermocycled for 200 cycles between 5°C and 55°C with a dwell time of 60 seconds in each bath, and then exposed to a dye. In the control groups, microleakage was statistically lower than the bleached groups (p<0.01). Groups cured with QTH and PAC showed no statistical differences (p>0.05). However, groups cured with LED system showed statistically significant differences (p<0.01) in microleakage

Key words:[Bleaching](#), [Microleakage](#), [Light curing units](#)[\[Image PDF \(307K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)

To cite this article:

Biliç BULUCU, Ebru ÖZSEZER, Ertan ERTAS and Gözde YÜKSEL. The Effect of Different Light Sources on Microleakage of Bleached Enamel . Dent. Mater. J. 2008; 27: 598-604 .

doi:10.4012/dmj.27.598

JOI JST.JSTAGE/dmj/27.598

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