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An in vitro study of the bond strength of light-cured glass ionomer cement in the bonding of orthodontic brackets

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ABSTRACT

The search to improve the properties of dental adhesives has led to the development of light-cured glass ionomer cements. Using human teeth in vitro, the present study tested the shear/peel bond strengths of two light-cure materials ('Variglass VLC' and 'Fuji Lining LC') against a 'no-mix' composite orthodontic adhesive ('Right-On') and a chemically cured glass ionomer cement ('Ketac-Cem'). The light-cured materials were found to have an inferior bond strength compared with the two control adhesives. Based on the findings of this study, there is no evidence to support the use of the materials tested for the bonding of orthodontic brackets.

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