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Clinical evaluation of two one-bottle dentin adhesives at three year

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The method currently used to adhere resin to dentin involves etching, priming and bonding. Many commercial adhesives now combine priming and bonding functions in a single solution and these are frequently called one bottle adhesives. The purpose of this study was to compare the 36-month clinical performance of two commercial one-bottle adhesives. The author enrolled 33 patients with non-carious cervical lesions in the study. A total of 101 lesions were restored with either a filled, ethanol-based adhesive or an unfilled, acetone-based adhesive and a hybrid resin-based composite. Enamel margins were not beveled and no mechanical retention was placed. The restorations were evaluated at baseline and six months, 18 months and 36 months after placement using modified Cvar/Ryge criteria. The retention rates at 36 months were 93.3% for the ethanol-based adhesive and 89.4% for the acetone-based adhesive. The difference in retention rates was not statistically significant. In both groups, 12% of the retained restorations had marginal staining, but no recurrent caries was detected around any restoration. Other restoration characteristics such as marginal adaptation and color match remained excellent three years after placement. The performance of both adhesives was excellent during this 36 month clinical trial. At the most recent recall evaluation (that is, 36 months), the filled, ethanol-based adhesive exhibited slightly better bond durability, but the difference between the two materials was not statistically significant. The one-bottle adhesives evaluated in this study provided excellent clinical retention of Class V restorations without mechanical retention. When the materials are used properly, restorations are retained at a high rate during at least three years of clinical service.

Biography

Ahmed Elmarakby is graduated from the Faculty of Dentistry, Al-Azhar University, Cairo, Egypt. He got the Master Degree in Operative Dentistry from Al-Azhar University at the year 2008 then finished his PhD in Operative Dentistry from Al-Azhar University Faculty of Dentistry, Cairo, Egypt in the year 2013. He is A Lecturer in Operative Dentistry Department, Faculty of Dentistry, Al-Azhar University, Egypt. Now, he is Assistant Professor of restorative dentistry science, Alfarabi Colleges, KSA. He has published 10 papers in different international journals. He sheared two posters in the KSA at jan 2017 (in Riyadh) and March 2017 (in Mekka) and participated with six posters in six global dental conferences all over the world. Also he has the letter of acceptance for four posters in four upcoming international conferences at this year 2017. He has got Editorial Board Memberships in International Journals like *Journal of Oral Medicine*, *Modern Research in Dentistry* and *EC Dental Science*.

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