

題名: Misrotensile evaluation of aged dentin bonding systems

作者: 鄭信忠

Lu H K; Kou Y W; Lee S Y; Lin C T; Cheng Hsin-Chung

貢獻者: 牙醫學系

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摘要: This study evaluated the 24-month clinical performance of a microfilled composite using a one-bottle bonding system and a compomer that uses one-bottle bonding systems, which include a non-rinse conditioner or 36% phosphoric acid gel in Class III cavities. Each patient received three restorations due to primary caries of the anterior teeth, resulting in a total of 96 restorations. Three types of restoration/adhesive combinations were used: a microfilled resin composite (Filtek A110) with a one-bottle bonding system (Single Bond); a polyacid-modified resin composite (compomer) (Dyract AP) with a filled one-bottle bonding system (Prime & Bond NT) using 36% phosphoric acid pretreatment and a polyacid-modified resin composite (compomer) (Dyract AP) with a filled one-bottle bonding system (Prime & Bond NT) using a non-rinse conditioner (NRC) and a self-priming pretreatment. At baseline and one- and two-year recalls, color match, marginal discoloration, wear or loss of anatomical form, caries, marginal adaptation and surface texture of the restorations were evaluated by two experienced, calibrated examiners using the modified Ryge criteria. After two years, one restoration from each group had a rating of Charlie (C) for both color match and marginal discoloration and needed to be replaced. Therefore, the failure rate was 3.6% (success rate: 96.4%) for each group at the end of two years. Statistical analysis showed no significant differences among the three groups in color match, marginal discoloration, wear or loss of anatomical form, marginal adaptation and surface texture after two years. Also, no statistically significant differences were determined

for each group with respect to color match, marginal discoloration, wear or loss of anatomical form, marginal adaptation and surface texture at the end of two years.