

Abstract:

Title: Comparison of color stability of bulk fill and conventional composite resins following exposure to mouthrinse

Introduction: Comparison of color stability of bulk elephant and conventional composites against mouthwashes
Abstract Introduction: Color change of composite restorations is the main factor in replacing these restorations. This study aims to compare the color stability of composite elephant bulk composites against mouthwashes.

Materials & Methods: In this laboratory study, 40 samples of composite (tetric n ceram) A2 with a diameter of 4 mm and a thickness of 4 mm were divided into four groups: a- in the presence of non-alcoholic MissWake mouthwash, in the presence of chlorhexidine mouthwash C- In the presence of alcohol-based Listerine mouthwash, In the presence of distilled water mouthwash and 40 samples of tetric n ceram bulk composite (A2) with a diameter of 4 mm and a thickness of 4 mm (10 samples) in the four groups mentioned The samples were then washed using SiC-400 grit paper and OptiDisc, then washed thoroughly with water for 10 seconds to remove debris and then at 100 ° C and 245 ° C for 24 hours. The primary dye (L, a, b) was measured in an incubator using an Easyshade spectrophotometer and the CIELab system. Data were analyzed by two-way ANOVA at a significance level of 0.05.

Results: The color change of the composite (tetric n ceram (AE) (967/32±1/1) is less than the composite tetric n ceram bulk fill (837/56±2/1) (P <0.05). In both conventional composite and elephant bulk, the lowest amount of color change (AE) in distilled water, respectively; Non-alcoholic fluoride; Listerine mouthwash and alcohol-containing and chlorhexidine mouthwash were observed.

Conclusion: None of the common composites and elephant pulp in distilled water; Non-alcoholic fluoride; Listerine mouthwash and alcohol-based co-mit did not cause clinically perceptible discoloration in the composites; But in chlorhexidine mouthwash in both composites discoloration was clinically unacceptable. **Keywords:** dye, resin composite, mouthwash.

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