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**Dental Materials Journal**

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[\[PDF \(110K\)\]](#) [\[References\]](#)**Color Stability of Resin Composites after Immersion in Different Drinks**[Ertan ERTAS](#)<sup>1)</sup>, [Ahmet Umut GÜLER](#)<sup>2)</sup>, [Ali Çagin YÜCEL](#)<sup>1)</sup>, [Hülya KÖPRÜLÜ](#)<sup>1)</sup> and [Eda GÜLER](#)<sup>1)</sup>

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**Abstract:**

The purpose of this study was to evaluate the discoloration of two nanohybrids, two microhybrids, and a posterior composite resin restorative material upon exposure to different drinks — namely tea, cola, coffee, red wine, and water. The colors of all specimens before and after storage in the solutions were measured by a colorimeter based on CIE Lab system, and the color differences thereby calculated. Data were analyzed by two-way analysis of variance (ANOVA) and Tukey's HSD test. According to ANOVA, the restorative material, staining agent, and their interaction were found to play a statistically significant role ( $P=0.0001$ ) in color change. Among the staining agents, water consistently showed the lowest  $\Delta E^*$  value for all materials, whereas red wine showed the highest  $\Delta E^*$  value. In other words, for all the materials tested, their color change in staining agents ranked in this increasing order: water < cola < tea < coffee < red wine. In terms of comparison among the five restorative materials, Filtek P60 and Z250 were observed to manifest less color change than the nanohybrids and Quadrant LC.

**Key words:**[Color stability](#), [Resin composite](#), [Drink](#)



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