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[\[PDF \(154K\)\]](#) [\[References\]](#)**Retentive Force of Three Fiber-reinforced Resin Composite Posts and a Zirconia Post Cemented with Two Adhesive Luting Agents: *In Vitro* Study**[Zelal SEYFIOGLU POLAT^{1\)}](#), [Ibrahim Halil TACIR^{1\)}](#), [Sebnem ESKIMEZ^{1\)}](#) and [M. Yusuf ÇELİK^{2\)}](#)

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Abstract:

By means of a pull-out test, this study compared the retentive force of three fiber-reinforced resin composite posts and a zirconia post. These posts were cemented using two different dual-polymerizing adhesive resin luting agents.

Forty freshly extracted canines were selected for the study. All tooth root were endodontically treated and the post spaces prepared. The posts were luted using luting agents according to the manufacturers' guidelines. A tensile force was applied, and all data were collected and analyzed statistically. Glass fiber posts that were luted with Panavia F (Group 3) had the highest median load (3.610 N), while zirconia posts that were luted with RelyX ARC (Group 8) had the lowest median load (0.926 N). Among the different post systems that were luted with Rely X ARC, significant differences were observed in their median tensile loads ($p < 0.047$). When comparing between Panavia F and RelyX ARC of each post system, a significantly higher tensile load was seen with zirconia posts luted with Panavia F (Group 7) ($p < 0.032$).

Key words:[Ceramic posts](#), [Adhesive luting agent](#), [Pull-out test](#)

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