**Bond strenght of resin cements to novel materials to intracanal posts applications**

**Abstract:**

**Objective:** evaluate the bond strength of resin cements to new materials for application in intraradicular posts. **Material and method:** Five materials were evaluated: fiberglass, PET, polyethylene, polyacetal and PTFE. Two commercial resin cements (Rely X U200 and Rely X Arc) were applied on the test specimens of the materials (9x3mm) and the bonding was evaluated through the shear bond strength test, where the chisel operated with a load of 1kN and a velocity of 0.5mm/min at the cement/material interface. The data were analyzed by the Shapiro-Wilk test, followed by the two-way analysis of variance, performed with the Bonferroni post-test (α=0.05). **Results:** The glass fiber was statistically different from all evaluated materials (p<0.05). There was no statistically significant difference between the other materials (p>0.05). Comparing the two cements, a statistical difference was found between Rely X U200 and Arc only for the glass fiber (p=0). **Conclusion:** PET, polyethylene, polyacetal and PTFE exhibited reduced bond strength compared to the glass fiber.

Keywords: resin cement, PET polymer, Polytetrafluoroethylene