ID: 3998  
Congress: 12th International Congress of Iranian Academy of Restorative Dentistry 24-26 October 2012 Tabriz-Iran  
Title: Evaluation of bond strength of translucent FRC post to different regions of root dentin using several luting systems  
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Abstract: Aim: This study evaluated the bond strength to root dentin by three types of luting cement was followed by application of various methods of surface preparation.  
Method & material: 30 human central maxillary teeth were divided in 3 groups. After cutting the crown, the specimens were endodontically treated. Surface preparation was performed by hydrogen peroxide and silane and posts cemented by Relay-x-Arc, Panavia and Glass. After cutting the samples with a thickness of 2 mm from coronal, middle and apical, bond strengths were measured using a micro pushout test. Fracture mode were observed by stereomicroscope. Information obtained was evaluated by using statistical analysis.  
Result: The highest bond strength pertain to Panavia and Fuji Glass & Relay x did not show significant difference (p=0.788). In analyzing different section, in cervical third there was no significant difference among three groups (p=0.113). The result for Panavia & Relay x in middle third (p=0.49) and apical (p<0.001) were difference. In comparison Panavia & Fuji Glass in middle portion (p=0.002) was, meaningful whereas in apical (p=0.762) was not meaningful. Dominant fracture mode in Panavia was mix fracture which show more rest cement in post surface but in Fuji Glass it was inverse and mix fracture appear with the remain cement in dentin walls. But in Relay x group rest of cement was not shown (either on post surface or dentin walls).  
Conclusion: In present study between these cements and surface treatment, in point of bond strength and fracture mode, the best evaluated adhesive cement was Panavia.  
Presentation: Poster  
Fiber post, Cements resin, Bond strength, Push out, root dentin