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The influence of temporary cement on the bond strength of resin cement to restoration

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Esthetic restorations have been made in indirect ways and recommended to be cemented with resin cement systems, so dentin is inevitably exposed to temporary cements which known to have deteriorating effect on resin's bonding strength. The aim of the current study was to compare the effect of various methods of temporary cement on the bond strength of resin cement to restoration. Each of them were embedded into acrylic resin block and dentinal surfaces of buccal or lingual side were exposed. The specimens were prepared until dentin was exposed and eugenol and non-eugenol containing temporary cement was applied to the dentin surface. In order to remove temporary cement, organic solvents were used. RelyX Unicem was used as a resin cement and restoration bonded to dentinal surface. Shear bond strength (Mpa) was measured using a universal testing machine at a 0.5 mm/min crosshead speed. To measure the contact angle, specimens were prepared using the same methods. With the results, it seems that some kinds of methods could evade efficiently from the effects of temporary cement and further confirmation and analysis is on the way.

Biography

Myung-Jin Lee is currently pursuing her PhD at Yonsei University College of Dentistry. She is interested in Dental Biomaterials. She has studied "The influence of amine contents in experimental acrylic resins". She wants to study the influence of temporary cement on the bond strength of resin cement to restoration.

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