

COMPOSITE RESTORATION OF ENDODONTICALLY TREATED TEETH

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Endodontically treated teeth are more brittle than vital teeth. The reduced elasticity of a pulpless tooth is only one of the reasons that special consideration is required in the restorative treatment of endodontically treated teeth.

In this study, a new'- form of cross-splinting of the pulpless teeth with a horizontal wire belt and composite (Group I) was used. The wire was surrounding the crown at the middle third, combined with intracoronal composite restoration. This new technique was compared with other restorations; group II restorations of teeth with amalgam overlays, group III restorations of teeth with composite. The forces at failure were determined using Amsler testing machine. Statistical analysis was done and the results showed that group I was highly significant than group II and III, as well as the mean value of group II was highly significant than group III.

By using a horizontal wire belt and composite, enamel function at cusp tips is maintained. Esthetics is improved and this technique is less costly. Also, the possibility of recurrent caries is less than with a cemented cast restoration.