

(P-112): KEY POINTS FOR SUCCESSFUL APPLICATION OF GICS IN SANDWICH TECHNIQUE

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Aim: The aim of this review article is to evaluate key points such as conventional versus resin modified GIC preference for use in sandwich technique, surface treatment of dentin and glass ionomer cement and the effect of the time lapse between the end of the mix and application of the bond agent on the bond strength of composite resin to glass ionomer cement.

Abstract: Application of glass ionomer cement together with a surface layer of composite resin in the so called sandwich or bi-layered technique has been established to combine appropriate characteristics of both materials in a single restoration and several studies have already been performed about the cement type and its application method beneath composite resin restorations.

Conclusion: Regarding flexural strength and bond strength to dental composites, resin modified GIC is superior to conventional GIC. Self etch adhesive systems provide the highest bond strength of GIC to both dentin and composite resin. The bond strength decreased as the time lapse between the end of the mix and application of the bond agent increased.

Keywords: Glass ionomer, Composite resin, Sandwich technique.