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IMMEDIATE DENTIN SEALING

Management of the dental tissues between the preparation and the restorative treatment plays a pivotal role in the success of adhesive restorations. Tooth preparations results in the removal of a layer of enamel, thus generating significant exposure of dentinal tubules making the tooth susceptible to post-operative sensitivity, bacterial infiltrations through the passage of microorganisms through the tubules, and create a potential for subsequent irritation of the pulp. An effective way to overcome these problems and protecting this pulp dentine interface is through stabilizing the exposed dentin tissue that can be achieved by a novel approach of Immediate dentin sealing.¹

Immediate dentin sealing is performed just after the preparation of the dental tissue and before making the impression. It protects dentin against bacterial leakage and sensitivity during provisionalization and subsequently dentin sensitivity. IDS decreases bacterial infiltration and strengthen the adhesion forces while enabling polymerization of the dentin bonding agent resulting in improved bond strength.² This paper enlightens the advantages of the techniques with regard to bond strength, gap formation, bacterial microleakage, dentin hypersensitivity and informs why this technique should be incorporated in day to day practice.

References
