

Clinical tips for durable dentin bonding

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Abstract

Adhesion to dental substrate is the key foundation for modern esthetic dentistry that enables practitioners using of tooth colored direct and indirect resins and ceramic based restorations. At their foundation, direct anterior and posterior resin composites, endodontic posts, resin cores, and laboratory processed resin and ceramic veneers, inlays, onlays and crowns all have bonding agents that function as the bridge between the restorative material or luting cement and tooth structure. To achieve clinical success with such restorations, good adhesion between restorative materials and tooth substrates is of crucial importance in order to ensure good marginal sealing, reinforcement of the tooth structure, and longer life of the restoration. During the last two decades, great advances in adhesive dentistry achieved forming what is called by "bonding revolution" in order to produce good adhesion to dental substrates. Modern adhesive systems seem superficially simple-merely a film to be painted on the tooth. Actually, they are often sophisticated and complicated chemical systems that have the challenge of sensitivity to the heroic oral environment where placed, so careful attention to appropriate use and good clinical technique is essential for getting the best performance out of the bonding system and ultimately, the restoration. The presentation will address clinical manipulative tips for obtaining the highest performances, in terms of bond durability and stability of the adhesive interface using these adhesive systems starting from selecting the appropriate system, application tips, common manipulative errors and detecting possible failures.

Biography:

Sherif Sayed Ahmed Abdelaal is the Professor of Conservative Dentistry at Faculty of Oral and Dental Medicine, Cairo University, Egypt. He has completed his PhD degree in 1997 from the same institute. He is also a Consultant of Restorative Dentistry at King Abdulla Medical City, Saudi Arabia. He has published more than 15 papers in reputed journals. He has participated in many regional and international dental conferences.