

Clinical solutions for complex adhesive rehabilitations

Novel adhesive techniques and bonded restorations are able to provide patients, clinicians, and dental technicians with treatment alternatives that until recently would require invasive approaches and sacrifice of pristine dental structure. Through microscopically interaction between biomaterials and dental structure, highly-esthetic and long-lasting clinical solutions can be attained while simultaneously preserving the integrity of the enamel and dentin.

The adhesive revolution has overturned established dogmas and concepts by advancing our profession with groundbreaking ultra-conservative philosophies that supported by the sealing and reinforcement of dental tissues. However, as newer adhesive materials and technologies are introduced at a very fast pace, it is essential that clinicians and dental technicians become familiar with their indications and limitations to provide the best restorative strategy for each individual patient.

This presentation provides a systematic and scientific approach for selecting esthetic treatment modalities using adhesive techniques and CAD/CAM materials based on original research data with special emphasis on adhesive techniques and new materials design and selection.

At the end of the presentation attendees will be able to:

- > Understand challenges related establishing a stable adhesive interface
- > Choose adhesive restorative material selections for different clinical situations
- > Understand the advantages and limitations of current in-office CAD/CAM materials



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Dr. Duarte is the Director of the Advanced Program in Operative Dentistry at USC and the Editor-in-Chief of Quintessence of Dental Technology (QDT). He has served on the editorial boards of other journals, and has lectured and performed hands-on courses nationally and internationally on esthetic dentistry and adhesion.

He has been involved in teaching cutting-edge clinical techniques and technologies related to aesthetic and adhesive dentistry. Dr. Duarte's scientific work has been supported by governmental and commercial grants and he serves as a consultant for several manufacturers. His research and clinical work focus on bonding to dental structures, composites, and ceramics.

