

**Course Title: Clinical Solutions for Complex Esthetic Rehabilitations using Adhesive Dentistry**

**Lecture Abstract:**

With a conservative approach in mind, clinicians should be able to provide patients with minimally-invasive, functional, highly-esthetic, and long-lasting solutions. These solutions should take into consideration patient needs and desires, functional issues, available materials, and clinical approaches. Novel conservative restorative techniques are able to combine a variety of treatment modalities for a large range of clinical situations including some that until recently were not considered possible. Through ultra-structural microscopically interaction between biomaterials and dental structure, esthetic and long-lasting clinical solutions can be attained while simultaneously preserving the integrity of the enamel and dentin. This presentation provides a systematic and scientific approach for selecting esthetic treatment modalities based on original research data with special emphasis on techniques and new materials design and selection. As predictable and advanced as these solutions are, they are not risk free; thus, failures and complications are still a clinical reality. Key risk factors will be discussed with the understanding that complex clinical rehabilitations have a much higher likelihood of complications and failures that have to be factored in prior to initiation of treatment.

**Learning Objectives:**

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

- 1) Understand challenges related establishing a stable adhesive interface to ceramic, composite, and dental structures
- 2) Choose adhesive strategies for different clinical situations
- 3) Understand the advantages and limitation of adhesive procedures for ceramic vs contemporary resin composite CAD/CAM solutions