Basic Principles of Modern Adhesion and Remineralization

Course Description
Half Day Lecture (2.5 - 3 hours)

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Description:

Reliably bonding direct and indirect restorations to both enamel and dentin is the single most important scientific discipline in modern dentistry. Over the past 18 years, adhesion has increased in effectiveness and predictability, but in turn has become complex and confusing. Proper product selection, proper use of the product selected and the variables that control the post-operative outcome must be understood. This course will:

- **Clarify the histological differences between dentin and enamel and how these differences affect adhesion**
- **Explain the role of C-Factor and uncontrolled polymerization stress plays on post-operative sensitivity and microleakage. Proper management of both will be discussed**
- **Proper use of total etch adhesives. Both 4th and 5th generation products will be discussed**
- **Removing the myths behind "how wet is wet," collagen fibril collapse, re-wetting agents and proper maintenance of the "vulnerable period."**
- **Ending sensitivity once and for all.**
- **The science of self-etching adhesive systems and understanding their advantages and limitations.**
- **Gaining clarity on how SEA's work and the proper used of these products.**
- **Understanding Type I, Type II and Type III SEA's and their placement in the general dental practice.**
- **When to use total etch verses self etch adhesives.**
- **Indirect and direct applications of both.**
- **The role of Glass Ionomers, Resin Reinforced Glass Ionmers as bases, "sandwich techniques," and sealants**
- **Minimally invasive adhesive dentistry including the latest in remineralization techniques and materials.**