

Biomimetic Restorative Dentistry



Lecture & Workshop

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Course Topics

- Principles of Biomimetic Dentistry
- Isolation Techniques
- IDS and Resin Coating
- Deep Margin Elevation
- Fiber-reinforced Biobase
- Fiber-reinforced Composite Restorations (Direct & Indirect)



Ali Emamgholipour DDS

Day 1 (Lectures)

- State-of-the-Art Direct Adhesive Restorations
- Principles of Biomimetic Dentistry
- Caries-affected and infected dentin
- Bonding systems and key to longevity of dentin bond
- Isolation Techniques Overview
- Cracked tooth etiology
- Air abrasion overview
- Understanding polymerization shrinkage through OCT
- Fiber-reinforced composite principles
- Short vs. Continuous fibers
- Immediate Dentin Sealing & Resin-coating
- Deep Margin Elevation
- Fiber-reinforced Biobase: The lamination technique
- Restoration of structurally compromised teeth with biomimetic technique
- Biomimetic indirect restorations: onlays

- Crown indications in biomimetic dentistry
- Ferrule or no ferrule?
- Biomimetic core buildup
- Adhesive Cementation of indirect restorations

Day 2 (Workshop contents Live Demo + Practice)

- Rubber Dam Placement for Operative Dentistry
- Posterior Direct Fiber-Reinforced Composite Restoration (Basic Level)
- Posterior Direct Fiber-Reinforced Composite Restoration (Advanced Level)
- Sectional Matrix Application
- Deep Margin Elevation and Modified Matrix Techniques
- Resin Coating and IDS Technique
- Fiber-reinforced Core Build-Up Technique for Endodontically Treated Posterior Teeth
- Adhesive Cementation of LD and/or composite



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