


Biomimetic dentistry in the posterior region: From direct to indirect following the Bio-Emulation concepts

HANDS-ON TRAINING



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7CE
Credits

 **DATE:**
10 May 2025
09:00 - 18:00

 **LOCATION:**
CAPP Training Institute
Dubai | UAE

 **TARGET AUDIENCE:**
General Dentistry, Cosmetic Dentistry,
Prosthodontics, Restorative Dentistry

Abstract

The rehabilitation of posterior region using bonded restorations has proved to be a great step forward in conservative dentistry. From single restoration to full mouth rehabilitation, biomimetic dentistry represents a new challenge for materials as well as operator skills. The knowledge of bio-mechanic considerations such as limits of restorative materials and remnant dental structures, as well as the careful application of bonding techniques, are critical for good prognosis of this kind of treatments. Furthermore, the indication shift between direct and indirect restoration often seems to be a difficult dilemma. Achieving stable, high quality, long-lasting direct and indirect restorations is technique sensitive and requires a proper understanding of many factors including material properties, isolation, preparation, bonding and layering among others. Furthermore, the new generation of materials, including fibre-reinforced dentin replacement, has opened a new window to enable direct restorations to have a performance and prognosis similar to indirect restorations and for even stronger indirect restorations when used as base material for build-up. The solution of all these challenges is possible using a proper systematic and simplified work based on research reference together with a rational clinical evaluation.

Learning Objectives & Outcomes

- Move towards a more conservative and predictable approach in restorative dentistry.
- Understand the histo-anatomic relation between enamel and dentin.
- Learn to emulate dental tissues with different restorative materials, from both optical and bio-mechanical perspectives.
- The use of fibre reinforced composites to strengthen both direct and indirect restorations.
- Learn strategies for achieving optimal bond strength to ensure durability of the restorations.
- Incorporate key elements in the workflow to facilitate the best finishing of the restorations.
- Understand the criteria to move from direct to indirect restorations and the optimal materials for each indication.

Registration & Pricing

Agenda

09:00 – 10:30	Lecture - Bio-Emulation approach to direct posterior restorations: isolation, preparation, bonding, layering and finishing.
10:30 – 11:00	Coffee Break
11:00 – 12:30	Hands-on Class II restoration with fibre-reinforced composite - demonstration and work by participants.
12:30 – 13:30	Lunch
13:30 – 14:30	Lecture - From direct to indirect. Criteria for cusp cover, preparation, IDS & build-up. Material selection and luting protocol.
14:30 – 16:30	Hands-on preparation and build-up for overlay, demonstration and work by participants.
16:30 – 17:00	Hands-on demonstration of luting procedure.
17:00 – 18:00	Q&A session, certificates handling and course closure.

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