

DUBAI | UAE

**CAD/CAM Digital &
Oral Facial Aesthetics**
39th Int'l Dental ConfEx

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DUBAI



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Alpha generation caries:
A new paradigm and toolkit
for the modern dentist

Date & Timing: 14 Nov 2025 | 17:45- 18:30

Venue: Madinat Jumeirah Arena & Conference Centre

Room: Ballroom Johara 3

Abstract

The Alpha Generation—tech-savvy, nutritionally challenged, and behaviorally complex—has changed how pediatric dentists must think about prevention. These children snack more, chew less, and face constant acid and sugar exposure from modern diets. Combined with digital overstimulation and sensory sensitivities, traditional prevention methods no longer suffice.

This lecture introduces a new paradigm for managing and preventing caries in the modern child, supported by an evidence-based toolkit that focuses on healing, not just repairing. We will explore the role of biomimetic and bioactive materials/ toothpastes, oral probiotics, salivary diagnostics, and minimally invasive restorations in restoring oral balance.

Emphasis will also be placed on behavior management for anxious or overstimulated children, parental education, and preventive care integration through empathy and technology.

By the end of this lecture, participants will walk away with a deeper understanding of the modern caries process—and the tools to help children heal, thrive, and stay cavity-free in a sugar-driven, digital world.

Learning objectives

- Recognize the behavioral, biological, and lifestyle factors contributing to early enamel demineralization and caries in Alpha Generation children.
- Apply a holistic prevention model that integrates airway assessment, salivary balance, and microbiome modulation.
- Evaluate emerging biomimetic and bioactive materials that promote enamel regeneration and long-term protection.
- Develop behavioral and communication strategies tailored for digitally stimulated, anxious, and sensory-sensitive young patients.