



Friday, 8th May 05:50 9m -06:15 pm

Endodontics

CLINICAL TRIALS / GIC - TRANSLATION FROM LAB TO CLINIC

Minimally invasive dentistry (MID) represents a significant shift in caries management, focusing on the preservation of tooth structure, early diagnosis, and biologically guided treatments, while minimizing extensive interventions and patient discomfort. Traditional restorative materials were passive fillers, whereas next-generation bioactive materials interact with the oral environment by releasing calcium, phosphate, fluoride, and other ions. These promote remineralization, strengthen the tooth–restoration interface, support dentinal collagen, and increase resistance to acid attacks, contributing not only to repairing damage but also to slowing caries progression. Although much of the evidence comes from in vitro studies and definitive clinical proof is still limited, this presentation will highlight short-, medium-, and long-term clinical results with bioactive materials, emphasizing their potential as an alternative to amalgam.

TURKUN SEBNEM



Dr Türkün was graduated from Ege University School of Dentistry in 1991. In 1998 she obtained her PhD degree in Restorative Dentistry, became Associate Professor in 2004 and Professor in 2009. She is currently working at Ege University School of Dentistry in the Department of Restorative Dentistry as a full time Professor. Her principal areas of interest are adhesive dentistry, aesthetic restorative materials and their clinical performance, antibacterial restorative materials, glass ionomer restoratives, bioactive dental materials and minimal invasive dentistry. She published many international and national papers on her field of interest, participates as keynote speaker in many international and national congresses and performed many workshops and hands-on courses. She is a member of the International Association for Dental Research (IADR) and Turkish Restorative Dentistry Association where she is vice-president. Dr Türkün is a board member of the European Federation of Conservative Dentistry (EFCD) for 12 years. She is the board member representing Turkey at the Continental European Division (CED) of the International Association for Dental Research (IADR) since 2021 and act as Councilor for CED at the IADR since 2023. Dr Türkün wrote many chapters in national and international published books and had been translating editor of many dentistry books.