



Saturday, 9th May 10:15 am-11:00 am

### Restorative & Materials

## CLINICAL SCIENTIFIC-BASED ELEMENTS OF LITHIUM DISILICATE AND ZIRCONIA RESTORATIONS: WHAT EVERY CLINICIAN MUST KNOW

Today, there is a lack of robust scientific evidence supporting the use of contemporary ceramics in dental practice. Low-quality clinical trials lead to unreliable systematic reviews, and laboratory "load-to-failure" tests have limited clinical relevance. This leaves clinicians uncertain about which restorative ceramic material is most suitable for their patients. The presentation will focus on lithium disilicate and monolithic zirconia, including the different generations. Mechanical and optical properties, wear on natural antagonist teeth, as well as procedures for fitting, finishing, and polishing ceramics will be discussed. A series of new retrospective studies will also be introduced to evaluate the survival of these materials.

- Understand the mechanical properties (including wear characteristics) and optical properties of lithium disilicate and zirconia and their clinical implications
- Determine the optimal preparation design and cementation procedure for each ceramic material
- Evaluate the expected clinical success of these two materials based on the most recent research

### TAISEER SULAIMAN



He is a Professor of Restorative Dentistry and Biomaterials at the Adams School of Dentistry, University of North Carolina at Chapel Hill, where he also completed a clinical certificate in Operative Dentistry and earned his PhD in Prosthodontics and Biomaterials at the Department of Prosthodontics and Biomaterials Science, University of Turku, Finland, in collaboration with the Department of Restorative Dentistry at UNC. Dr. Sulaiman is a practicing clinician and a passionate researcher dedicated to bridging the gap between dental research and clinical application. His research focuses on maximizing the clinical relevance of in vitro testing, and he has published over 100 peer-reviewed articles, abstracts, and book chapters. He is a member of the International College of Dentists and numerous academies, including the prestigious American Academy of Restorative Dentistry and the Academy of Operative Dentistry.