

**42<sup>nd</sup> International Conference on Dental and Oral Health**

January 22, 2025 | Webinar

**POSTER PRESENTATION****Orthodontic bracket bonding techniques and adhesion****Noura Fahad Alotaibi**

Prince Sultan Military Medical City, Saudi Arabia

The introduction of glass ionomer cements in orthodontics aimed to address the drawbacks of the acid-etch technique using composite resins, including demineralization, enamel damage, and potential allergic reactions. These cements release fluoride over time, potentially protecting against demineralization. Glass ionomer cements, despite their benefits in reducing adhesive residue and protecting against demineralization, showed higher bond failure rates compared to composite resins. This is attributed to their sensitivity to application techniques and moisture, along with a delayed setting time. In contrast, light-cured composite resins, preferred over chemically-cured resins in recent years, offer advantages such as ease of use, consistent handling, and controlled setting. However, early trials indicated higher bond failure rates for light-cured resins, a finding not consistently replicated in later studies. While glass ionomer cements

offer certain advantages, their higher bond failure rate poses a significant limitation. Light-cured composite resins, with their user-friendly characteristics, have become the preferred choice in orthodontic bonding despite initial concerns about higher bond failure rates.

**Biography**

Dr. Noura Alotaibi is a general practitioner in Prince Sultan Military Medical City, Riyadh, Saudi Arabia. She has done his graduation from Vision College in Riyadh. She has an outstanding clinical experience. She interacts with many doctors in different specialists in the branch of dentistry. She had published various research papers in National and international journals. Presently she is working in department of Dental at PSMMC, KSA. She always believed that people should strive to achieve their goals and overcome their difficulties in how to matter what circumstances they are living in.