



Clinical performance of adhesive restorations

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Contemporary restorative dentistry is primarily based on resin-based materials and adhesive approaches. Longitudinal clinical studies show a long-lasting performance of resin composite restorations, with annual failure rates of around 2%. This long-term durability does not mean that longevity is no longer a challenge. The intraoral environment imposes varied mechanical and biochemical challenges to restorations and adhesive interfaces. Several factors have been reported to be associated with the failure rates of resin composite restorations, including material and technique related factors, tooth-related variables, patient- and professional-related aspects. This lecture will provide an overview on factors involved in the clinical durability and failures of adhesive restorations. The role of adhesion on the clinical service will be addressed, in addition to clinical signs that could be observed during the aging of restorations in the mouth.

<Biography>

Dr. Moraes graduated as a dentist in 2004 at the Universidade Federal de Pelotas, Brazil. In 2009, he obtained his PhD-degree at the Universidade Estadual de Campinas, Brazil. During his PhD, he was a visiting scholar at the University of Colorado, USA. Since 2009, he is an associate professor in Universidade Federal de Pelotas, with undergraduate and graduate education activities. He is a fellow of the Academy of Dental Materials, member of the Brazilian Dental Materials Group and Brazilian Division of the International Association for Dental Research. He has coauthored several book chapters and published more than 180 peer reviewed articles.