



Long term results of full-mouth adhesive restorations

The prosthetic rehabilitation of patients with fixed restorations traditionally encompassed single crowns and/or bridges, cemented onto prepared abutment teeth with aid of conventional cements. In case of a lack of tooth substance the abutment teeth had to be built- up in order to deliver the geometrically desired shape, conicity and size to retain the restorations. The preparation requirements were mostly material- related, based on the needs of metal- ceramic restorations and later also adapted to the needs of all- ceramic restorations. These traditional treatment concepts are supported by a strong body of evidence, numerous studies were published over the last 20 to 30 years on the outcomes of full crown and bridgework. Recent systematic reviews of the literature demonstrate excellent survival rates of both metal- ceramic and all- ceramic restorations. Yet, the reviews also highlight that loss of abutment tooth vitality is one predominant biologic complication of the traditional fixed restorations mostly caused by the invasive tooth preparation, hence iatrogenic. Yet, significant improvements of the adhesive cementation technology and the restorative materials composite and ceramics open- up a new less invasive treatment approach. Instead of preparing teeth to deliver retention to restorations, the current minimally- invasive treatment concepts focus on adhesively bonding them to the substrate and enabling defect- oriented restorations. New restoration types such as additional / non- prep veneers, onlays, overlays, overlay- veneers are increasingly being used for prosthetic rehabilitation today. This lecture will elaborate the actual possibilities of the non- and minimally- invasive restorations for full mouth rehabilitations, and will discuss their indications and current limitations for the rehabilitation of vital and non- vital teeth.

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She received her dental education and Dr. med. dent. degree from the Faculty of Medicine, University of Tübingen, Germany in 1997/ 1998. In 2003 Dr. Sailer received an Assistant Professorship at the Clinic of Fixed and Removable Prosthodontics and Dental Material Sciences in Zurich. From 2010 on she was an Associate Professor at the same clinic. In 2007 Dr. Sailer was a Visiting Scholar at the Department of Biomaterials and Biomimetics, Dental College, New York University, USA. Additionally, since 2009 she holds an Adjunct Associate Professorship at the Department of Preventive and Restorative Sciences, Robert Schattner Center, School of Dental Medicine, University of Pennsylvania, Philadelphia, USA. Since September 2013 she is the Head of the Division of Fixed Prosthodontics and Biomaterials at the University of Geneva. Irena Sailer is a Specialist for Prosthodontics (Swiss Society for Reconstructive Dentistry), and holds a Certificate of focussed activities in Dental Implantology (WBA) of the Swiss Society for Dentistry. She is a Member of the Board of Directors of the Swiss Society of Reconstructive Dentistry and of the Swiss Leadership Team of the ITI (International Team for Implantology).



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Irena Sailer is also a Member of the Board of Directors of the EAO, an Active Member of the European Academy of Esthetic Dentistry and an Active Fellow of the Greater New York Academy of Prosthodontics.

Since beginning of 2019 Irena Sailer is the Editor-in-Chief of the International Journal of Prosthodontics. She is also the author or co-author of more than 100 peer reviewed scientific manuscripts, 6 book chapters and the monograph “Color in dentistry – a clinical guide to predictable esthetics” together with Dr. Stephen Chu, Dr. Rade Paravina and Mr. Adam Mieleszko (Quintessence publishing). She holds several patents on esthetic coatings of dental/ medical devices and on a digital dental splint.

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