Title
The resin-bonded bridge - current state of the art for the replacement of teeth?

Abstract
During the last 40 years the resin-bonded bridge (RBB) has evolved to a predictable treatment alternative for the replacement of missing teeth. In the past, this treatment means suffered from high failure rates due to de-bonding and could only be recommended as provisional solution. Albeit, due to significant improvement of both materials and clinical techniques, the clinical outcomes of RBFDPs are compelling today. A significant improvement was the reduction of the number of fixation retainers from 2- and- more to just one. This modification considerably reduced the RBFDP de-bonding rates. Furthermore, the introduction of a minimally invasive preparation design encompassing more retention and an increase in bonding surface area ameliorated the outcomes of RBFDPs. Finally, new resin cements with improved bonding capacity to various types of materials led to better anchorage of the RBFDPs. The most interesting modification, however, was the use of ceramics instead of metal as framework material for the RBFDPs, which had a surprisingly positive effect on the clinical outcomes. All-ceramic single-retainer RBFDPs in the anterior region seldom exhibited de-bonding and their survival rates exceeded 94% after 10 years. The RBB has, hence, become a valid final treatment option for the replacement of anterior teeth. This presentation will elaborate the clinical indications including the case examination and planning, and will discuss the current limitations of the RBBs.

Learning Objectives
1. To learn about the indications and limitations for RBBs and to discuss the differences in the anterior and posterior regions
2. To learn how to select the clinical situation indicated for RBBs and to evaluate the different designs and materials for the RBBs including the clinical steps associated with RBBs
3. To learn about the long-term outcomes of the RBBs

Biography
DR. IRENA SAILER
Irena Sailer 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). Furthermore, Irena Sailer serves the Scientific Boards of the European Association of Osseointegration and the Swiss Society of Implantology.

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.