

Academy of Prosthodontics 2024 Annual Scientific Session Four Seasons Hotel, Denver, Colorado May 29 – June 1, 2024

Program Speaker – Irena Sailer

Title

The Past, Present and Future of Zirconia Restorations

Abstract

The high-strength ceramic zirconia has become a valid alternative to metals for tooth- and implant-borne restorations. The results of the initial clinical studies displayed already good performance of restorations with zirconia frameworks. The further development of zirconia has led to significant improvements of the outcomes since its introduction, however. The initial versions of veneered zirconia restorations suffered from very high rates of chipping of the veneering ceramic. Albeit the more recent versions, i.e. monolithic or micro-veneered zirconia restorations, perform much better as reviews show.

For the processing of zirconia, computer-aided design and manufacturing procedures had to be developed. In the last 20 years, numerous CAD/CAM procedures were introduced, and the documented success of zirconia may be one of the reasons for the digital dental technologies boom that we are currently facing. Furthermore, while milling of white stage zirconia blanks is the current fabrication technology, the future of zirconia restorations will most likely be 3D printing. With this more efficient and sustainable restorative procedures may be enabled, reducing treatment times and costs while maintaining the good clinical results. Research is needed and ongoing to test this.

The lecture will display the evolution of zirconia as a restorative material and present the different variations of zirconia up to the current types. The level of evidence will be presented as well as current clinical concepts of the application of zirconia restorations.

Learning Objectives

1. To learn about the different types of zirconia for the fabrication of restorations and their differences and indications.
2. To learn about the fabrication workflows of zirconia restorations to improve the predictability of outcomes.
3. To look out to the future of zirconia restorations, reviewing current 3D printing options and their outcomes.

Biography

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. 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 for Dental Implantology WBA (Swiss Society for Dentistry).

Since 2009 she is an Adjunct Associate Professor at University of Pennsylvania, USA, and since 2019 an Honorary Professor at the University of Aarhus, Denmark.

She is a Member of the Executive Committee of the EAO (European Association for Osseointegration), and the President of the EAED (European Academy of Esthetic Dentistry). She is also an Active Fellow of the GNYAP (Greater New York Academy of Prosthodontics).

Since 2019 Irena Sailer is the Editor-in-Chief of the International Journal of Prosthodontics and a member of ICP (International College of Prosthodontists).



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Speaker Conflict of Interest Disclosure

ANNEX C

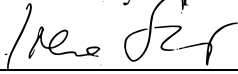
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