

THE FUTURE IN IMPLANT DENTISTRY

HYBRID DESIGN **IMPLANTS**

with Dr. Daniel Buser



The term Hybrid Design (HD) was first used by Dennis Tarnow in 1993. The term stands for an implant with a micro-rough implant surface in the endosseous portion to promote faster and better osseointegration of the implant during healing and during function and a smooth, machined surface in the neck/collar region for the transcrestal area with contact to the peri-implant sulcus. The most prominent HD implant is the iconic Tissue Level (TL) Implant by Straumann, which was first inserted in patients in 1986 at the University of Bern (Buser et al. 1988). Clinical long-term studies with TL implants have clearly documented the least risk for the development of peri-implant mucositis and peri-implantitis (Derks et al. 2016a; Derks et al. 2016b) when compared with implants with a micro-rough surface, all the way up to the implant neck. The long-term documentation at the University of Bern confirmed the low risk of roughly 3% for developing peri-implantitis with TL implants in a large 10-year study with 500+ TL implants (Buser et al. 2012). A most recent study by Windael et al. (2021) with 1478 non-HD implants and a 10-year observation period confirmed this again. Implants with an early bone loss (EBL) ≥ 0.5 mm during the first year of function showed a 5x times higher odds ratio for future peri-implantitis development. EBL of >0.5 mm means an exposure of the micro-rough surface to the peri-implant sulcus. This lecture will present all relevant aspects of HD implants and what surgical factors are essential to achieve successful outcomes with good long-term stability. In addition, the latest development of the Straumann implant will be presented, the TLX and TLC implants both with a Hybrid Design. It represents the 4th Generation of Straumann implants.

Learning Objectives

- Understand the concept of Hybrid Design Implants
- Understand why HD implants have a reduced risk for the development of peri-implantitis over time
- Learn about the surgical key factors for successful outcomes with HD implants with good long-term stability
- Learn about the TLX and TLC implants, their indications, and clinical application

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Friday, January 17, 2025

9:00 a.m. – 2:00 p.m.



Miami Marriott Biscayne Bay
1633 North Bayshore Drive
Miami, FL 33132



\$995 USD



5 CE Hours



SAC level:
Advanced/complex



Ideal for: Specialists

Speaker



DR. DANIEL BUSER

Dr. Buser is one of the most experienced implant surgeons with 35 years of surgical experience. He is a pioneer of micro-rough implant surfaces, and of the GBR technique. He's received several scientific awards by professional organizations such as the ITI, the AO, the AAP and the AAOMS. His main research areas are in tissue regeneration around dental implants, surface technology and Guided Bone Regeneration. He published with his team, more than 400 publications, case reports and book chapters. He is also Editor of the GBR Book (1994 and 2009). The 3rd edition of the GBR Book was published in August 2021.

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