

Zirkonzahn

SWISS QUALITY
DENTAL IMPLANT
STUDIO

RENZO C. CASELLINI M.D.T.

Esthetic and Implant Dentistry
WESTWOOD MEDICAL PLAZA



HUMAN ZIRCONIUM TECHNOLOGY

Bio Esthetic & No Chipping

CAD/CAM SYSTEM 5-TEC

100% PRETTAU ZIRKON



RENZO C. CASELLINI, M.D.T.

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Four generations since 1915

The Prettau Bridge

Implant-borne prosthesis are exposed to much higher occlusal loads than conventional bridges due to the lack of periodontal load receptors. This may lead to occlusal veneer porcelain chipping. The so-called Prettau-Bridge provides a new way of dealing with such situations. In the process of making a bridge of this kind a full set up is produced first. This is tried in situ and checked for aesthetic appearance and function. Following, the set-up is copied in zirconia with our manual milling system. We use the extra-translucent Prettau zirconia for such cases. The final restoration is made from 100% zirconia. Only the 'soft-tissue' flange is veneered with pink porcelains of various shades. Full zirconia bridges display tremendous flexural strength which guarantees absolute solidity. Provided all manufacturing parameters (i.e. adequate connector dimensions and slow cool cycles) are adhered to. Reservations about surface hardness causing abrasion of the opposing natural dentition are unfounded and concerns can be discarded according to latest findings. It is proven fact that actual veneer porcelain has much higher abrasion than unveneered zirconia.

Before



After



Lower implant supported hybrid Bridge



ZIRCONIA—The ceramic material of the future



Zirconium is one of the oldest and most abundant elements in the terrestrial crust and it is the basis for Zirconium oxid (yttrium stabilized Zirconium dioxid). This first-class-performance material was successfully used for artificial limbs and joints in the medical fields in the last decades and now it is also available to the dental industry.

Due to its excellent biological characteristics, zirconium is nowadays the preferred material for dental restorations. Its use in the dental field is on the increase since the 1990s. Laboratory tests revealed that zirconium bridges and metal ceramic bridges on the basis of precious metal alloy show the same fracture resistance.

In dentistry abrasion means the loss of tooth substance due to friction. Enamel and dentin are part of the so-called 'hard' tooth structure. By Contrast veneer porcelain will cause wear on natural dentition due to its highly porous structure which acts like sandpaper. Veneer porcelain is 1000 times more abrasive compared to polished Prettau Zirconia. Our experiences with zirconia vindicate our view: Zirconia causes practically no abrasion to natural dentition



Renzo C. Casellini, MDT

Renzo C. Casellini a Master Dental Technologist, received his education in Switzerland, where his family has been dynamically involved in the dental industry for four generations. For the past 37 years he has been the owner of Swiss Quality Dental Ceramics & Dental Implant Studio. He services accounts throughout the United States and Internationally. His article on implants and esthetics have been featured in over 50 professional publications throughout the world. He specializes in Osseo integrated implant prosthetics. His is a member of several associations and lectures worldwide on esthetic implant restorations. Renzo received a Mastership from the AAIP, the ICOI, as well as the ACP. In 2007 he became an ICOI/IPS Certified Implant Prosthetist and a member of the Board. In 2008 he became a board President of the implant Prosthetic Section of the ICOI, and a diplomate of the American Implant Dental Association. Mr. Casellini is also an Implant prosthetic instructor at Loma Linda University.



Fernando Casellini, MDT

Natürlicher Zahnersatz seit 3 Generationen

Fernando Casellini

27. Januar 1950

Zahntechniker seit 1970

Ehrenmitglied Collegium Implantologicum (CI) Schweiz

Mitglied VZLS

Spezialgebiet:

Ästhetik und Funktion mit Zirkonzahn

Zirkonzahn

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SWISS "PRECISION IN PROSTHETICS" THAT WORKS

LET'S PLAN YOUR NEXT CASE DESIGN TOGETHER!

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