



Lecture Abstract

Carsten Fischer CDT, Frankfurt/DE

Sirius ceramics & coaching Ltd., Frankfurt, Germany;
Self-employed Dental Technician since 1996

Professional skills:

- CAD/CAM technologies, all-ceramic restorations
- Esthetic implantology, high esthetic veneers
- Removable prosthetics acc. OA Dr. Paul Weigl, University of Frankfurt
- Full mouth restorations for patients with craniomandibular dysfunctions

Dr. Peter Gehrke, Ludwigshafen/DE

Private Practice, Ludwigshafen, Germany;
Prosthodontist

Main implantological topics:

- Implant macro- and micro-design
- Biomechanics
- Restorative and esthetic dentistry

Professional skills:

- Postgraduate specialities in Prosthodontics and Implant Dentistry at NYU, New York (USA), Chair: Dennis Tarnow
- Restorative associate in private practice limited to implant dentistry & oral surgery, Prof. Dr. Dhom & Partner, Germany
- Part-time faculty member at Steinbeis University Berlin, Germany, in the programs "Master of Science in Oral Implantology & Periodontology"

New Horizons for the challenging implant: Compartis® CAD/CAM generated one-piece and two-piece Implant Abutments

With increasing surgical reliability of implant dentistry and documented high success rates the standards expected from implant-supported dental restorations are rising. Single tooth restorations on implants can be challenging due to the difficulty in achieving an ideal emergence profile and esthetic crown design. New



computer-designed and -generated implant abutments will fundamentally change the present restorative protocols for implant dentistry. After conventional impression taking, the resulting cast is optically scanned and, utilizing the Compartis® CAD/CAM system, a patient specific defined Cercon® art custom abutment is created. ANKYLOS® C/X and XiVE®/ FRIALIT® custom abutments are available in Y-TZP zirconia and titanium. CAD/CAM custom abutments for cement-retained implant prosthetics can now be more predictably designed to re-create the desired supporting crown orientation and morphology. This facilitates the formation of anatomical gingival topography and coronal contours for prosthetic replacement. They offer natural emergence anatomy; proper spatial design at the cervical margin; sufficient occlusal reduction; and proper axial angulation for ideal design. The presentation will highlight the natural symbiosis of a functional and esthetic treatment approach, considering restorative aspects as well as abutment/ crown design and material characteristics. Step-by-step laboratory procedures on CAD/CAM based abutments and restorations will be discussed.