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Isil Damla Sener Yamaner
Istanbul Aydin University, Turkey

Implant restorations connected with laterally approached screw to custom abutments

Cemented restorations are commonly used restorations in dental implantology. Advantages of cemented restorations are; compensation of improperly inclined implants, easier achievement of passive fit due to cement layer between the abutment and prosthesis. However, excess cement is a major problem and cause soft tissue damage, bone loss and/or chronic inflammation. The screw-retained implant prosthesis has benefits. The main advantage is retrievability. In the event of loosening or fracture, the crown can be removed. However, screw-retained restorations are associated with more complications than cement-retained restorations. Fracture of occlusal materials of implant restorations and esthetic problems are most commonly problems. New pre-milled blanks are produced to solve these problems using lateral approach screw hole to make customized screw retained prosthesis. A full arch edentulous patient was treated with six dental implants. After osseointegration, healing abutments were placed onto implants for the second stage of surgery. After healing, impression was taken, and master model was created. Master model was scanned with using scan abutment placing onto implant analogs and digital model was obtained for designing the custom abutment on the computer. After designing of custom abutment, digital data were sent to a milling machine. Custom screw retained abutments were milled from a new designed pre-milled blank. These pre-milled blanks were designed to make custom abutment having lateral screw hole replacing occlusal screw access hole. Pre-milled custom abutments were placed at one time to patient mouth during the metal try-in. Replica abutments produced from peek pre-milled blanks using milling machine were placed remaining prosthetic steps of the restoration on the master model. New designed pre-milled blanks and laterally approached screw retained restorations can achieved better functional and esthetics results for the implant prosthesis but long term clinical trials are needed

Biography

Isil Damla Sener Yamaner has completed her PhD from Department of Prosthodontics, Faculty of Dentistry, Marmara University and Post-doctoral studies from Department of Prosthodontics, Faculty of Dentistry, Istanbul Aydin University. She is now an Assistant Professor and she has published about 25 papers in reputed journals.

isildamlasener@gmail.com

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