

ADVANCED TREATMENT PLANNING: PARTIALLY DENTATE R.M.

Influence of the implant abutment types and the dynamic loading on initial screw loosening

Eun-Sook Kim, DDS, MS, Soo-Yeon Shin*, DDS, MS, PhD

Department of Prosthodontics, College of Dentistry, Dankook University, Cheonan, Republic of Korea

CONCLUSION. The abutment types did not have a significant influence on short term screw loosening. On the other hand, after 105 cycles dynamic loading, CAD/CAM custom abutment affected the initial screw loosening, but stock abutment and gold cast abutment did not. [*J Adv Prosthodont 2013;5:21-8*]

Computer-Aided Design and Computer-Assisted Manufacturing in Prosthetic Implant Dentistry- Kapos/Ashy
JOMI 2009;24 110-117

Conclusion: Based on systematic review concerning CAD/CAM used for fabrication of frameworks and abutments, preliminary proof of concept was established. Clinical studies were too preliminary to provide meaningful conclusions regarding the performance of these abutments/frameworks.

Consensus Statements and Recommended Clinical Procedures Regarding Computer-Assisted Implant Dentistry
Christoph H. F. Hammerele, DMD, Dr. Med Dent/Paul Stone BDS FDS
JOMI Volume 24, Supplement, 2009 P126

Clinical Recc: With the information available to the group from the systematic review by Kopas et al, it was felt that for clinical situations requiring highly individualized components, CAD/CAM can be considered the method of choice. Similarly, where the material of choice is zirconia or titanium, CAD/CAM could again be the preferred option.

What have we learned?

3 Atlantis Abutments, 3 Crowns: Boutique lab: \$2022

3 Atlantis Abutments, 3 Crowns: Glidewell: \$1322

3 Standard Abutments Prepped: 3 Crowns: \$810

Required profit? Dollars per hour? Patient's budget? Esthetic Expectations?

KNOW YOUR COSTS BEFORE YOU START THE CASE.

Force Factors

- Ultimate esthetics, support and biomechanical stresses may suggest custom abutments be considered.
- It is not accepted that custom abutments are required for success.
- Cost considerations may influence design.

Notes: