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Superior protocol - temporary implant

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A temporary dental implant is a medical device which is temporarily used to support a prosthesis such as an artificial tooth used for restoring patient's masticatory function during implant treatment. It is implanted in the oral cavity to substitute for the role of tooth (KIM et al; 2017).

Most of the literature points to the disadvantages and problems inherent to the early placement of dental implants, especially in the anterior sector.

Of these, continuous tooth movement/extrusion of adjacent teeth and the inability of fixed prosthetic rehabilitation and dental implants to accompany this extrusion stand out (JENSEN, 2019.)

It is true that it is precisely in the anterior sector that fixed implant rehabilitation solutions exist, even in children and adolescents, where the psychological and social impact inherent to missing teeth are very high.

The Research and Industry should walk together in order to solve problems related with dental implants Rehabilitations and promote innovation and development with targets to serve the community of Investigators, Industry and the patients.

So, Thus, if we think that recent studies point to the great stability of implants in Zirconia, in a single piece (Kohal et al, 2013, Balmer et al, 2018).

It would be a challenge to create implants in Zirconia in 2 pieces, even knowing the technological development needs to achieve the goals (Neugebauer et al, 2023) or to customize ceramic dental implants (Dantas T et al, 2021; Dantas T et al, 2022).

Even with the notion that there are errors in image acquisition and planning, the fact is that there are steps taken in an attempt to customize implants. In superior rehabilitation, especially in immediate protocols, the placement of zirconia implants can be a rehabilitation option with great advantages. (Figure 1)

An innovative protocol for immediate superior rehabilitation is presented.

Recent Publications

1. M H Kim, E J Cho, J W Lee, E K Kim, S H Yoo, C W Park. A study on setting of the fatigue limit of temporary dental implants. Clin Oral Implants Res. 2018 Mar;29(3):290-299. doi: 10.1111/clr.13115. Epub 2018 Jan 12.
2. Simon Storgård Jensen. Timing of implant placement after traumatic dental injury. Dental Traumatology. Volume35, Issue6. December 2019. Pages 376-379
3. Marc Balmer, Benedikt C Spies, Kirstin Vach, Ralf-Joachim Kohal, Christoph H F Hämmerle, Ronald E Jung. Three-year analysis of zirconia implants used for single-tooth replacement and three-unit fixed dental prostheses: A prospective multicenter study. Clin Oral Implants Res 2018 Mar;29(3):290-299. doi: 10.1111/clr.13115. Epub 2018 Jan 12.

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Biography

Aline Marodin has her expertise in Oral surgery and nowadays is focused on Dental Implant Complications and Orofacial Rehabilitation. The years of clinical experience are going to be fulfilled by a Phd at University of Porto, Portugal. Both in Clinic Practice (Clin D, Prevage by Paula Vaz) and research for improving knowledge education institutions (FMDUP, LAETA, Porto University) allow to serve DR. Paula Vaz Team Research in the field of Oral Rehabilitation, Dental Implants in a translational thinking of Science and Innovation.

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Figure 1: Innovative solutions for Implant superior Protocol.