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Immediate loading in post-extraction sites with ANYONE implants: a report of 5 cases

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Objectives

This pilot study reported preliminary results of an ongoing prospective study with the aim to evaluate the use of Anyone implant for immediate implant loading in post-extractive site. Implant success rate is evaluated after 6 months, 1 years and 5 years. Particular care is done to evaluate the peri-implant bone stability over time and the final aesthetic outcome.

Materials and Methods

Methods: Any patient requiring one single immediate post-extractive implant in the premolar area is enrolled in the study. The two adjacent teeth have to be present. After tooth extraction an ANYONE implant (Megagen, Korea) with internal connection is used. Each implant is immediately loaded with a screw retained provisional restoration. Implant insertion torque is also assessed with a manual wrench and reports as > 35 Ncm. The extraction socket should have at least 3 intact walls. In the presence of a residual gap between the implant surface and the buccal bone wall > 1 mm, a bone substitute (DBBM) is used to fill the gap. Implant are evaluated after 6 months, 1 year and 5 years. Biological and biomechanical complications are reported. Peri-implant marginal bone level changes are evaluated with intraoral radiographs made with the paralleling technique and customized positioner.



Results

Actually 5 patients were enrolled for this pilot study. All the implants had an uneventful healing. After 6 months from the loading all implant were in place. The implant success rate at 6 month was 100%. None biological and biomechanical complication were reported.

Conclusion

Immediate implant placement with immediate loading is an option that provides good treatment outcomes and allows good functional and esthetic results, as well as addressing the social/psychological aspects of dental extraction. However, to reach satisfactory results is necessary to select carefully the clinical case, to follow strictly the surgical and the prosthetic protocols and a well trained team able to control the surgical and the prosthetic problems that the immediate loading post-extractive implants determine. In this pilot report ANYONE fixture showed to be effective for immediate loading post-extractive implants after 6 months. It is necessary to continue the prospective study with an higher number of implant and to follow up the implants for a longer period in order to have further informations in terms of bone stability and aesthetic outcome.

References

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