

Traditional post-extractive implant site preparation compared with pre-extractive interradicular implant bed preparation in the mandibular molar region, using an ultrasonic device: a randomized pilot study

ABSTRACT

Immediate post-extraction implant placement for replacing multi-root teeth can be a clinical challenge, especially if insufficient bone tissue volume does not allow to reach the proper primary stability. As implant bed preparation is a critical procedure, the aim of this study was to compare two different approaches: implant bed preparation before and after root extraction. To do this, 22 patients, who needed an implant-prosthetic rehabilitation, were selected and randomly assigned to the test group (implant bed preparation before molar extractions) or control group (bed preparation after molar extractions). A guided bone regeneration (GBR) procedure was performed with bone porcine particles (OsteoBiol® Gen-Os®, TecnoSS®, Giaveno, Italy) applied around the implant into the alveolous and covered by a membrane (OsteoBiol® Evolution, TecnoSS®). The implant stability quotient (ISQ) and the position of the implant were evaluated and a statistical analysis was carried out.

CONCLUSIONS

In this study is shown how preparation of implant sites with an ultrasonic device before tooth extraction, allows implant placement in an ideal prosthetic position. This procedure is simple and allows to reach a higher stability in selective cases compared with traditional technique of extraction and placement.

ALVEOLAR REGENERATION

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