Clinical Outcome of Immediate Non Functional Loaded Implants, Immediate Versus Delayed Immediate Implantation

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Abstract

Purpose: To evaluate the success rate of immediate nonfunctional loaded implants used into fresh extraction sites (immediate post extraction implantation) and into healed extraction sites

Material & Methods: The present study was conducted on 13 patients, 6 of them underwent immediate post extraction implantation, while the other 7 patients were underwent delayed immediate implantation with a total of 16 implants. Each patient was a candidate for single tooth replacement in the mandibular arch at the premolar area. CBCT was performed at the intervals of immediately after implant installation and 6 months postoperatively.

Results: The bone density measurement at base line, and after 6 months have showed that the delayed immediate group showed statistically significantly higher mean % increase in bone density measurement than the immediate group. Despite the expected higher values of delayed immediate group, yet the percentage changes in bone density for the 2 groups was equivalent as there was no statistically significant difference between mean percentage changes of the 2 groups after 6 months.

Conclusion: The results of this study suggest that although the success and survival rates of early placed implants were a little higher than immediately placed implants, the difference was not remarkable. In conclusion, both implant insertion techniques are safe and reliable procedures with considerably high survival rates.

Egyptian Dental Journal Volume 60, Number 1 January 2014 - 2014, January