

Research Article

IMPACT ON LIFE OF PATIENT'S WITH IMMEDIATE LOADING OF DENTAL IMPLANT IN ANTERIOR REGION OF MAXILLA AND MANDIBLE.

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ABSTRACT

Abstract:

Missing tooth in anterior region of jaw compromises the life of patient in many ways. Dental implant is one of the most useful tooth replacement technique which can replace tooth immediately. Immediate loading of tooth is not a new concept but with the success of implant and development in the field of implant dentistry today we can assure treatment with immediate loading. We have evaluated the impact of immediate loading of dental implant on life of patient by a simple questioner.

Key-words: Dental Implant, Maxilla, Mandible

INTRODUCTION

Man has been searching different treatment options for replacement of tooth. With success of dental implant and long term follow up immediate loading of dental implant has become more feasible. Primary stability is the most important factor for immediately loaded implant. Knowledge of biological and mechanical stability has made immediate loading of implant more predictable. Branemark has listed several protocols for evaluation of success of dental implant. Misch has also elaborated protocols to check the success of dental implant. Originally, Branemark concept emphasized on post-insertion healing period of three months in mandible and six months in maxilla. With the recent advances in dental implant design, restorative and surgical technique immediate loading of dental implant is no longer a difficult task and can be done with predictable results. According to timing of implant loading Ilser Turkeyilmaz¹ classified implant as:

1. **Immediate loading:** The prosthesis is connected to the implants within 48hrs of implants insertion.
2. **Early loading:** The prosthesis is connected at a second procedure, earlier than the conventional healing period of 3 to 6 months.
3. **Delayed loading:** The prosthesis is connected at a second procedure after a conventional healing period of 3 to 6 months.

We have evaluated for quality of life after immediate loading of dental implant by a Questioner.

Material and method

All patients who were ready to participate in the study were evaluated radiographically and hematologically followed by a written consent. The inclusion criteria for implantation was medically fit patient, patient with healed socket in anterior maxillary or mandibular region and those patients willing to participate in the study. Exclusion criteria were medically compromised patient, pregnant woman, periodontally compromised patients, and patients with traumatic occlusion / bruxism and those patients not willing to participate in the study.

All implants were placed after clinical and radiographic planning maintaining asepsis and immediate loading of implant was done within 48hrs of placement of dental implants. All patients were given questioner.

Questioner on quality of work post immediate loading of dental implant.

1. Name of patient:
2. Age: 18- 30 ☐ 31-40 ☐ 41- 60 ☐
3. I felt more confident in public appearance
 Strongly agree ☐
 Agree ☐
 Disagree ☐
 Strongly Disagree ☐
4. I felt difference in speech
 Strongly agree ☐
 Agree ☐
 Disagree ☐
 Strongly Disagree ☐
5. I am satisfied with the treatment performed
 Strongly agree ☐
 Agree ☐
 Disagree ☐
 Strongly Disagree ☐

RESULTS

All patients in the study were highly satisfied with the procedure performed and no implant failure was noted in the period of six month.

DISCUSSION

Immediate loading by Aparicio et al was defined as where the superstructure is applied within 72 hrs after surgery². Later Cochran et al also supported the same phenomenon³. Bijlani & Lozada in a retrospective study evaluated the success rate of immediately loaded implants

placed in four patients after 3–6 years of clinical function. All implants placed and loaded immediately were successfully osseointegrated⁴. PJ Henry suggests that immediate loading protocols have demonstrated high implant survival rates and may be cautiously recommended for certain clinical situations⁵. Though immediate loading of implant cannot be placed in all patients but proper case selection and pre-surgical analysis of patient is the important factor for success of immediate loading implant. Patient satisfaction is the key to success of any treatment thus the questioner after placement of immediate loading dental implant give the proper guideline for success and failure.

CONCLUSION

Immediate loading of dental implant is a efficient procedure for replacement of tooth with predictable outcomes and gave confidence to patient in their routine life and improved their quality of life.

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