

32nd International Conference on

DENTISTRY

December 12, 2022 | Webinar

Received date: 16.08.2022 | Accepted date: 20.08.2022 | Published date: 20.12.2022

Pre-extractive inter-radicular implant bed preparation versus conventional post-extractive inter-radicular implant bed preparation in mandibular molars randomized clinical trial

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Statement of the problem: Placing implants in an ideal position without compromising their primary stability represents a critical issue. The initial osteotomy must be directed into the medial portion of the alveolus while engaging the interradicular septum of the extraction socket. The drill may continuously slip, leading to inaccurate site preparation, and consequently to a deficient implant insertion. The implant is often placed directly into the extraction socket of the tooth to replace. The Purpose of this study: Was to assess the implant stability and amount of crestal bone loss in immediate implant placement in mandibular molars by using pre-extractive inter-radicular implant bed preparation versus conventional post-extractive inter-radicular implant bed preparation. Materials and Methods: Twenty patients (5 males, 15 females), suffering from badly decayed vital or non-vital posterior mandibular molar teeth were selected and randomly divided into 2 groups, 10 per group; the first group received Pre-extractive interradicular implant bed preparation while the second group received Conventional post-extractive interradicular implant bed preparation. All surgeries were performed by the same surgeon. Findings: there was significant difference on Osstell Reading in immediate implant placement between both groups. There was statistical difference in the mean value of Changes of (Buccal and Mesial Bone Margins) and (Mesial and Distal Bone Margins) of the Second Measurement that was between 6 months and 1 year after implant placement between both groups. Conclusions: Implants that placed by pre-extractive inter-radicular implant bed preparation had a high primary stability than that placed by post-extractive inter-radicular implant bed preparation. Recommendations: Using the modified pre-extractive inter-radicular implant bed preparation which could provide satisfactory primary implant stability with ideal implant positioning and enhanced implant success.

Recent Publications

1. Fugazzotto PA. Implant Placement at the Time of Mandibular Molar Extraction: Description of Technique and Preliminary Results of 341 Cases. *J Periodontol.* 2008;79(4):737-747.
2. Atieh MA, Payne AGT, Duncan WJ, de Silva RK, Cullinan MP. Immediate placement or immediate restoration/loading of single implants for molar tooth replacement: a systematic review and meta-analysis. *Int J Oral Maxillofac Implants.* 2010;25(2):401-415.
3. Atieh MA, Alsabeeha NHM, Duncan WJ. Immediate single implant restorations in mandibular molar extraction sockets: A controlled clinical trial. *Clin Oral Implants Res.* 2013;24(5):484-496.

Biography

Mohamed Abdel Wahid is working as professor in implantology department, faculty of dentistry, Cairo University, Egypt and a member of Ministry of Health and population healthcare administrator with proven ability to deliver exemplary level of healthcare service delivery to patients. Coordinate admission and discharge of patients. Plan and implement strategies for developing improved health care management. Proven problem solver and excellent communicator. Strong organizational skills, superb understanding of data collection and performance metrics. Recognized for staff development leading to high performing teams. Highly organized and hardworking with excellent planning and program management skills.

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