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Quality Assessment of bone after placement of Autogenous Mandibular Bone Graft on Compromised Ridge in Maxillary Anterior Region followed by Rehabilitation with Immediate Implant Loading

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ABSTRACT:

The aesthetic zone of the maxillary anterior area of human dentition is highly important for appearance and function. When teeth are missing in this region, it can greatly impact both aesthetics and the ability to chew properly. Endosseous Implants are a suitable solution in such cases, but a successful implant placement relies on having enough bone volume for proper integration into the jawbone. When the bone's natural shape does not permit the correct positioning of implants, there are several bone augmentation procedures available to rebuild the remaining alveolar ridge for optimal implant placement. In this research work, Autogenous bone grafts were employed, which are considered "The Gold Standard" for bone augmentation procedures due to their excellent compatibility with the body and no risk of disease transmission. The recipient site for the grafts Mandibular Symphyseal region. After a six-month period, there was a significant increase in both the width and density of the bone in the labiolingual aspect. Subsequently, an implant was placed and immediately loaded for functional use.

Keywords: Autogenous Bone graft, Bone augmentation, Mandibular Block Bone Graft, Immediate loading Implant.

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