

# The Outcome of Immediate Implant placement with Bone Augmentation in the Maxillary Esthetic Zone Supporting Removable Partial Denture

*Lobna Abdelaziz, Hossam Nassar*

## Abstract

**Background:** Immediate implantation was suggested to reduce the number of surgical interventions and preserving the alveolar ridge. Implant placement in the esthetic zone demands a thorough understanding of anatomic, biologic, surgical, and prosthetic principles. Thus the aim of the present study was to evaluate the 36 months survival rate of osseointegration, on the basis of clinical and radiographic examinations, for simultaneous bone grafting with immediate implants supporting partial denture with locator attachment in maxillary esthetic area.

**Materials and Methods:** A total of 20 patients received 45 immediate implants with bone graft supporting maxillary partial overdentures. The clinical analysis of Probing Depth (PD), Bleeding Index (BI), Plaque Index (PI) and radiographic analysis of crestal bone level at a follow up interval of 12 weeks, 24 weeks and 36 weeks were evaluated.

**Results:** All implants achieved successful osseointegration. The soft tissue architecture remained stable throughout the healing period of the implants as well as after final prostheses delivery, contributing to esthetically pleasing and biologically sound results.

**Conclusion:** Immediate implants with locator attachment supporting maxillary partial denture can be safe, reliable and a predictable option for the replacement of teeth in the esthetic zone, providing stability to the peri-implant soft tissue

**Keywords:** immediate implant, bone graft, partial denture, locator

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