

## The Long-Term Effects of Immediate Implantation, Early Implantation and Delayed Implantation at Aesthetics Area

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**Abstract :** Immediate Implantation after tooth extraction is considered to be the ideal way to retain the alveolar bone, but some scholars believe the aesthetic effect in the Early Implantation case are more reliable. In this study, 89 patients were added to this retrospective study up to 5 years. Assessment indicators was including the survival of the implant (peri-implant infection, implant loosening, shedding, crowns and occlusal), aesthetics (color and fullness gums, papilla height, probing depth, X-ray alveolar crest height, the patient's own aesthetic satisfaction, doctors aesthetics score), repair defects around the implant (peri-implant bone changes in height and thickness, whether the use of autologous bone graft, whether to use absorption/repair manual nonabsorbable material), treatment time, cost and the use of antibiotics. The results demonstrated that there is no significant difference in long-term success rate of immediate implantation, early implantation and delayed implantation ( $p > 0.05$ ). But the results indicated immediate implantation group could get better aesthetic results after two years ( $p < 0.05$ ), but may increase the risk of complications and failures ( $p < 0.05$ ). High-risk indicators include gingival recession, labial bone wall damage, thin gingival biotypes, planting position and occlusal restoration bad and so on. No matter which type of implanting methods was selected, the extraction methods and bone defect amplification techniques are observed as a significant factors on aesthetic effect ( $p < 0.05$ ).

**Keywords :** immediate implantation, long-term effects, aesthetics area, dental implants

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