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Immediate Placement of Implants into Fresh Extraction Site: A literature Review & Case Report

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Immediate implants are defined as the placement of implants in the course of surgical extraction of the teeth to be replaced. The insertion of implants immediately after extraction is not new, and in the eighties the University of Tübingen advocated the procedure as the technique of choice for Tübingen and München ceramic implants.^{1,2} The percentage success of such procedures varies among authors from 92.7-98.0%. As a result of the success of the protocol designed by Brånemark and his team for their dental implant system, other procedures were largely relegated for many years.

Initially, a healing period of 9-12 months was advised between tooth extraction and implant placement. Nevertheless, as a result of continued research, a number of the concepts contained in the Brånemark protocol and previously regarded as axiomatic - such as the submerged technique concept, delayed loading, machined titanium surface, etc. - have since been revised and improved upon even by the actual creators of the procedure.^{2,3,4}

Based on the time elapsed between extraction and implantation, the following classification has been established relating the receptor zone to the required therapeutic approach:

Immediate implantation, when the remnant bone suffices to ensure primary stability of the implant, which is inserted in the course of surgical extraction of the tooth to be replaced (primary immediate implants).

Recent implantation, when approximately 6-8 weeks have elapsed from extraction to implantation - a time during which the soft tissues heal, allowing adequate mucogingival covering of the alveolus (secondary immediate implants).

Delayed implantation, when the receptor zone is not optimum for either immediate or recent implantation. Bone promotion is first carried out with bone grafts and/or barrier membranes, followed approximately 6 months later by implant positioning (delayed implants).

Mature implantation, when over 9 months have elapsed from extraction to implantation. Mature bone is found in such situations.^{1,3,4,5,6,7}



Fig.1: Initial panorex case study.