Teeth-in-an-Hour™ Concept and Flapless Surgery

Based on 3-D CT-scan images, a computerized treatment planning procedure was developed in a cooperation between the Catholic University of Leuven and Nobel Biocare AB. In a further development of the treatment procedure, a flapless surgical technique was introduced in the Teeth-in-an-Hour concept. The combination of a digital 3-D planning system and a customized drilling template allows for high-precision implant placement via flapless surgery, and immediate insertion of a pre-fabricated fixed prosthesis.

A flapless surgical technique has several advantages compared to the conventional surgical procedure, which includes the opening of a flap before implant insertion. Flapless surgery generates less postoperative bleeding, less discomfort for the patient, shorter surgery time, and also reduced healing time. The patients heal with minor or no swelling.

Results from a prospective clinical study on the Teeth-in-an-Hour concept showed that the treatment procedure allowed for precise implant placement, which made immediate delivery of the final prosthesis possible in all patients. The post-operative pain was reported as minimal, and all prostheses and individual implants were recorded as stable after one year.

Other publications also report less post-operative problems compared to conventional treatment.

References


