Teeth-in-an-Hour™ with the NobelGuide™ Concept

A computerized treatment planning procedure based on 3-D CT-scan images was developed in a cooperation between the Catholic University of Leuven and Nobel Biocare AB1-3. The planning procedure makes it possible to preview suggested implant placement and fabrication of a customized surgical template. The combination of the Procera® Software planning program and a customized drilling template allows for implant placement via flapless surgery (NobelGuide™), and also immediate placement of a pre-fabricated fixed prosthesis (Teeth-in-an-Hour™)4-11. In a retrospective study 30 consecutive patients, including 212 implants, have been followed up to 5 years12.

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 year7. The concept, with minimal invasive and simplified surgery, reduces the treatment time and post-surgical discomfort9-10. A preliminary evaluation of the All-on-4 concept and treatment according to the NobelGuide™ procedure has shown promising results in a prospective clinical study11.

References


12 Sanna AM, Molly L, van Steenbergh D. Immediately-loaded CAD-CAM manufactured fixed complete dentures using flapless implant placement procedures: a cohort study of consecutive subjects. J Prosthet Dent: accepted for publication.