

# Computer-guided implant surgery and soft tissue management for full mouth rehabilitation: a case report

Sang-hyun Yea, Yang-Jo Seol

Scientific Poster, Osstem Meeting 2017



## Introduction

For the full mouth rehabilitation of oral cavity using fixed prosthesis, various surgical procedures such as crown lengthening procedure, implant installation and various soft tissue management techniques are important for long-term prognosis of final restoration. Especially, placement of implant fixtures in the appropriate 3-dimensional position is necessary for good quality of final restorations. In that sense, computer guided implant surgery has the advantage of simplified 3-dimensional implant planning procedure with computed tomographic (CT) scan data. Customized surgical templates can provide convenience with clinicians in terms of transfer the planned position into patient's oral cavity.

## Purpose

This aim of this case report is to show the surgical procedures needed for the full mouth rehabilitation and convenience of OneGuide system in the multiple implant installation.

## Clinical Report

Due to resorption of mandibular alveolar bone, decision of direction of implants were carefully made to avoid the risk of damaging inferior alveolar nerve and artery. Multiple implant fixtures were installed using computer-guided implant surgery (OneGuide system, Osstem implant, co., Seoul, Korea)(Fig.5).

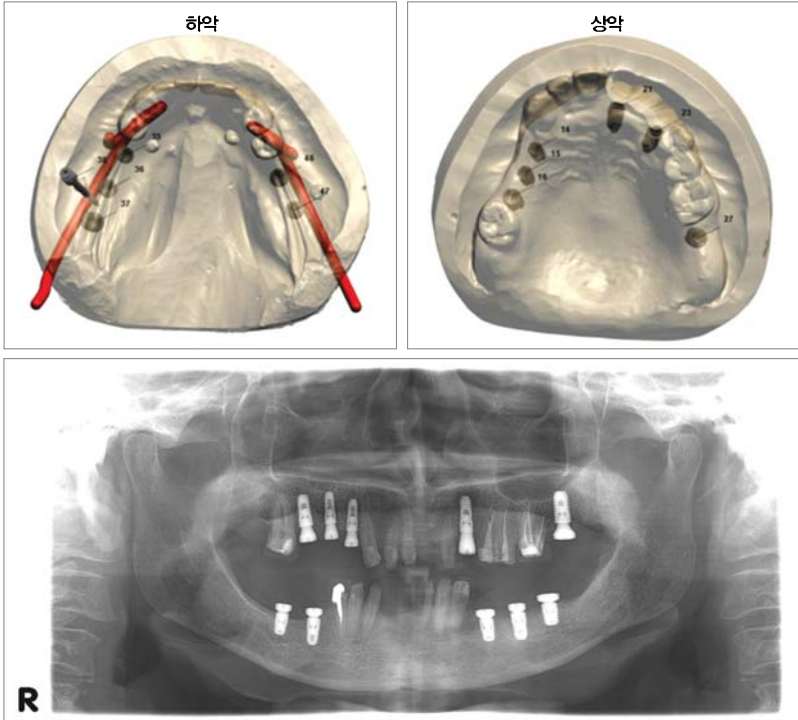


Fig. 5. Computer guided surgery

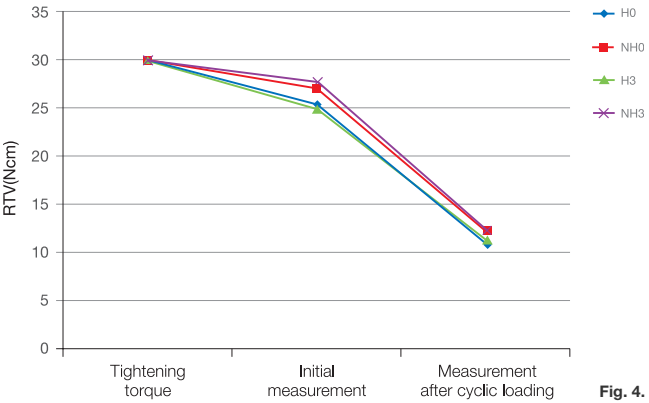


Fig. 4. RTVs before and after cyclic loading

## Conclusion

Cyclic load affected on settlement and loosening torque of implant, and hex abutment assembly was more settling amount than non-hex abutment assembly. There is no affect settling amount according to different bone level in vitro. Removal torque values were significantly decreased but there was no significant difference when compared to groups