

# Full arch delayed implant placement with fully guided surgery. Case report

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## Introduction and Purpose

**Aim:** to present a case report of a prosthetically driven digital treatment planning and its subsequent execution, using the fully guided implant placement protocol, in a patient with generalised advanced chronic periodontitis.

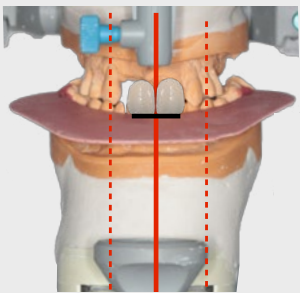
## Methods

A 58-year old partially edentulous female patient was referred to the post-graduate clinic of Master of Periodontology program of Complutense University (Madrid, Spain).

**Chief complaint:** my upper and lower teeth are moving, and I am looking for the fixed rehabilitation of my mouth.



## Diagnostics and esthetic analysis

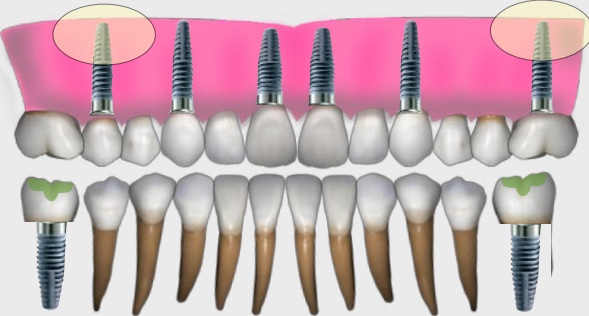


Diagnostic wax-up

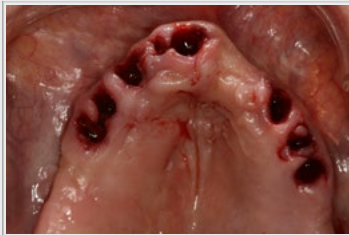
Try-in

## Treatment plan

Based on the diagnosis of chronic generalized severe periodontitis, teeth mobility grade II-III, pathologic teeth migration, posterior bite collapse and patient's desire to have a fixed solution, the decision was taken to extract all upper teeth with a subsequent fixed implant-supported rehabilitation.



## Teeth extraction

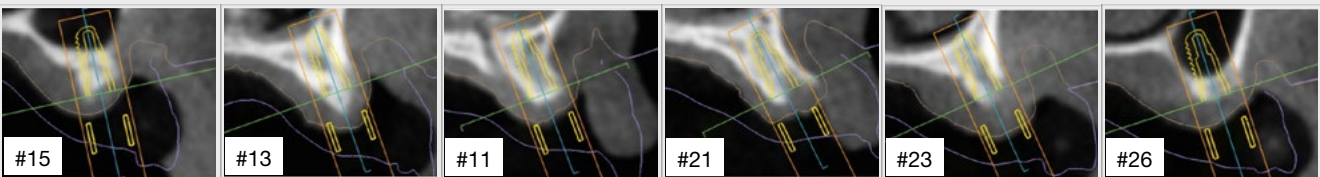
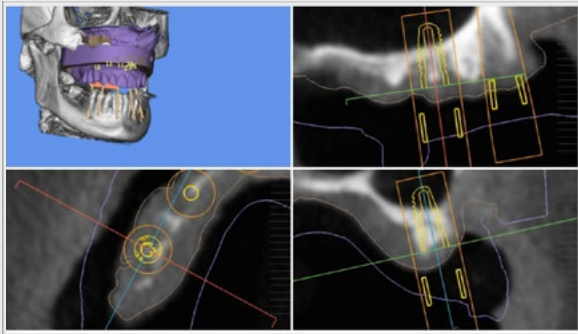


## Immediate complete denture



## Virtual planning of the surgical guide

6 weeks after teeth extraction, a CBCT was obtained, and the dental stone model of the maxilla was optically scanned. Resulting DICOM and STL files were superimposed in the SMOP Implant Planning System (Smop, Swissmeda, Zurich, Switzerland).



The placement of six Conelog implants (Camlog, Biotechnologies AG, Switzerland) was planned and the surgical guide was designed for the protocol of fully-guided implant placement.

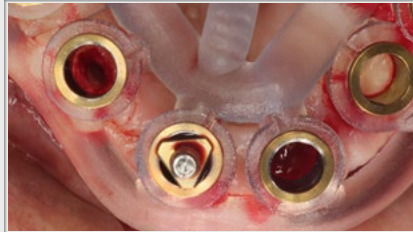
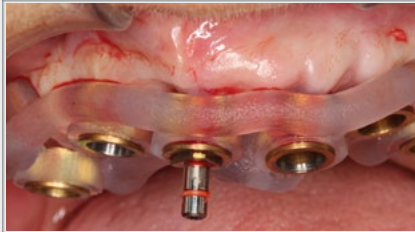


## Try-in of the surgical guide

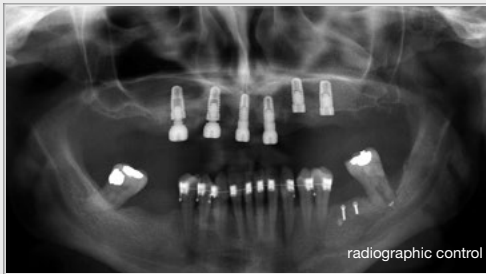
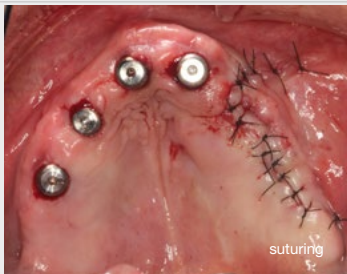
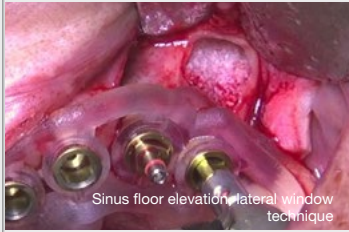
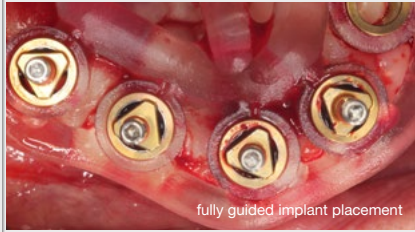
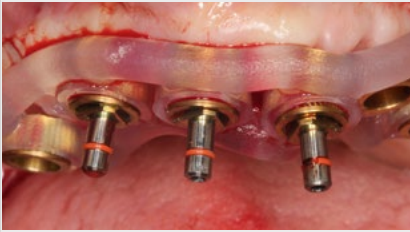


## Surgical procedure

First implant placement, and insertion post left in place to ensure additional surgical guide stability



## Surgical procedure



suturing

healing 1 week

radiographic control

## Restorative procedures



definitive restoration

definitive restoration fixed in the mouth

## Conclusions

Complex treatment planning using digital approach may facilitate the process of implants placement, making it more safe and predictable, and improve the long-term functional and esthetic result of the complex rehabilitation.

## Disclosure

The authors declare that they do not have any conflict of interest.