

# Fully Digital Workflow for Prosthetic Full-Arch Immediate Loading Rehabilitation Using Optisplint digital impression : A Case Report

## **Introduction**

This case presentation focuses on a complete fully digital workflow, immediate loading fixed prosthesis, with a high level of esthetic results, from data acquisition to manufacturing of the definitive prostheses for complete-arch implant treatment, using a unique way of accurate digital impression. Despite numerous publications describing intraoral scanning for complete-arch digital implant recording, there are recommendations that further clinical studies are needed to validate the overall digital workflow clinically and scientifically for complete-arch implant-supported treatment. The actual presentation provides a present-day approach to applying digital technology for data acquisition, design, and manufacturing for dual-arch implant therapy. High esthetic and functional outcome is consequently achieved.

## **Case Description**

A 50-year-old male presented at our clinic with esthetic and functional issues. His medical history was unsigned and classified as ASA1. He complained of diminished masticatory capacity and loss of retention of the upper removable partial denture. This case was fully edentulous.

A double scan was made using Morita CBCT, designing a pilot guide through the Exoplan platform, continuing with implant placements, and same time mounting of multiunit for angle correction.

A digital impression was done using optisplint and intraoral scan Medit i700.

After designing the temporary bridge, the temporary bridge was printed using Saremco Crowntek resin using the NextDent printer.

Within the same day, the fixed temporary bridge was mounted in the mouth.

## **Discussion.**

The main issue so far in terms of full arch impressions with intra-oral scan was inaccurate which is sorted out in our case using optisplint.

The double scan technique helped to achieve accurate occlusion.