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Usefulness and Reliability with CT-guided Surgery to Rehabilitate an ASA-III Patient: a clinical case report

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Abstract

Purpose: to evaluate safety and effectiveness of a CT-guided surgery implant placement with flapless technique and immediate functional loading in an ASA-III patient.

Materials and methods: this clinical case report involved a 74-year-old ASA-III patient. His hopeless teeth were extracted and a restorative evaluation was provided as prosthetic reference. Surgical procedure was based on flapless technique that let us to use local anesthesia. We used an All-on-4® concept restoration for maxilla and conventional fixed prosthesis procedures for jaw's rehabilitation. We placed four tilted implants in the upper maxilla and six right implants in the jaw. Implants were loaded with a provisional prosthesis the same day of surgery. Five months later, provisional restoration was removed; we placed into the ceramic crowns two frameworks, developed via a CAD/CAM technology.

Conclusions: CT-guided surgery is a minimally invasive technique that allows, through a flapless approach, safer and more predictable procedures. In this case we achieved accurate implant placement and precise fit of restoration with natural looking appearance; this patient-oriented-treatment led to a reduced healing time with better compliance.

Keywords: dental implants, flapless technique, CT-guided surgery, ASA-III patient

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