

## **THE REHABILITATION OF THE COMPLETELY EDENTULOUS MANDIBLE USING REMOVABLE IMPLANTPROTHESIS - CASE REPORT**

### Introduction

Complete edentulism is a complex pathological condition, in which the total loss of teeth affects the oral functions, determines morphological changes in the alveolar bone tissues and oral mucosa, while also having a negative impact on the general health. The replacement of missing teeth has been done for a long time with conventional complete denture, which does not always have retention and stability on the prosthetic field, due to the irreversible process of bone resorption, occurring mainly in the mandible.

### Case Description

A female patient, aged 68, reported to the dental office mainly because of low retention, the instability of conventional mandibular complete denture and masticatory inefficiency. The clinical evaluation revealed a complete edentulous maxilla and mandible restored with conventional complete prostheses. The mandibular prosthetic field had a reduced support area, with a marked atrophy of the alveolar ridge. Radiological examinations - panoramic radiography and CBCT (cone beam computed tomography) were also performed and after measuring the height and weight of the remaining bone, the therapeutic decision was to carry out a new complete mandibular prosthesis supported by implants. The surgical phase consisted of the placement of three endosseous implants in the interforaminal region. The prosthetic phase followed the clinical and technical steps needed to manufacture the removable prosthesis attached to the implants through a laser sintered bar, virtually designed in Exocad Dental CAD software.

### Discussion

Removable implant-supported denture is a viable treatment option that improves the retention and stability of the prosthesis, increases masticatory efficiency, enhances patient satisfaction and quality of life. Hence, the choice of restorative treatment in fully edentulous patients must be performed according to individual clinical features.

Keywords: complete edentulous, implants, removable prosthesis