



Case report

Prosthetic rehabilitation of a patient after a partial mandibulectomy



Marcelo Coelho Goiato^{*}, Rodrigo Antonio de Medeiros, Aljomar José Vechiato Filho, Emily Vivianne Freitas da Silva, Mariana Vilela Sônego, Karina Helga Turcio de Carvalho, Aimée Maria Guiotti, Stefan Fiuza de Carvalho Dekon, Aldiéris Alves Pesqueira, Daniela Micheline dos Santos

Department of Dental Materials and Prosthodontics, Araçatuba Dental School, UNESP – Sao Paulo State University, Araçatuba, SP, Brazil

HIGHLIGHTS

- Oral Surgery oncology.
- This study investigated the esthetic of the prosthesis rehabilitation.
- Patient satisfaction after rehabilitation.

ARTICLE INFO

Article history:

Received 19 March 2015
Received in revised form
8 May 2015
Accepted 8 May 2015

Keywords:

Denture
Epidermoid carcinoma
Quality of life
Mouth rehabilitation

ABSTRACT

Introduction: The treatment of orofacial tumors may cause facial deformities by losses of structures that affect basic functions, i.e. feeding, speech, and the reduction of patient self-esteem.

Presentation of case: A white male patient was diagnosed with epidermoid cancer on the mandibular alveolar ridge with infiltration staging IV A. The patient was submitted to a mandibulectomy associated with a complete extraction of mandibular teeth. For rehabilitation, a conventional denture for the mandibular arch and a removable partial denture for the maxillary arch were fabricated. A correct occlusal adjustment and a satisfactory amount of alveolar bone was favorable for conventional dentures of the prostheses bases improve their retention and stability. After one year of follow-up, the patient was adapted to the prostheses, satisfied with their retention, and reported an improvement on his feeding.

Discussion: The prosthetic rehabilitation of patients after a partial mandibulectomy is essential for their self-esteem. Conventional dentures may have their retention and stability improved if they are well fabricated, recorded and have a balanced occlusion.

Conclusion: A correct occlusal adjustment and an adequate retention of the prostheses bases may improve their retention and stability. Patients without xerostomy and with a satisfactory amount of alveolar bone may have a favorable prognosis for conventional dentures.

© 2015 The Authors. Published by Elsevier Ltd on behalf of IJS Publishing Group Limited. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

1. Introduction

The incidence of orofacial tumors is constantly increasing [1] and their treatment may be the surgical resections performed to eliminate neoplasias and prevent recurrences [2,3]. However, this treatment may cause facial deformities with the removal of muscles, soft tissues, articular discs and mandibular condyles [4]. These

losses of structures affect basic functions, i.e. feeding, speech, and the reduction of patient self-esteem [5].

Osseointegrated dental implants have been proposed as an alternative to rehabilitate patients after partial mandibulectomy because they may improve prostheses retention, stability and oral function [4]. However, the majority of patients submitted to surgical resections as a consequence of orofacial tumors were treated with radiotherapy to diminish the probability of metastasis [2], and this treatment may be contra-indicated for dental implants.

Patients who underwent radiotherapy treatment are associated to low survival rates of dental implants [1]. So, the prosthetic treatment with conventional dentures is proposed as an alternative

^{*} Corresponding author. Department of Dental Materials and Prosthodontics, Araçatuba Dental School, UNESP – Univ Estadual Paulista, José Bonifácio, 1193, Araçatuba, São Paulo, 16015-050, Brazil.

E-mail address: goiato@foa.unesp.br (M.C. Goiato).

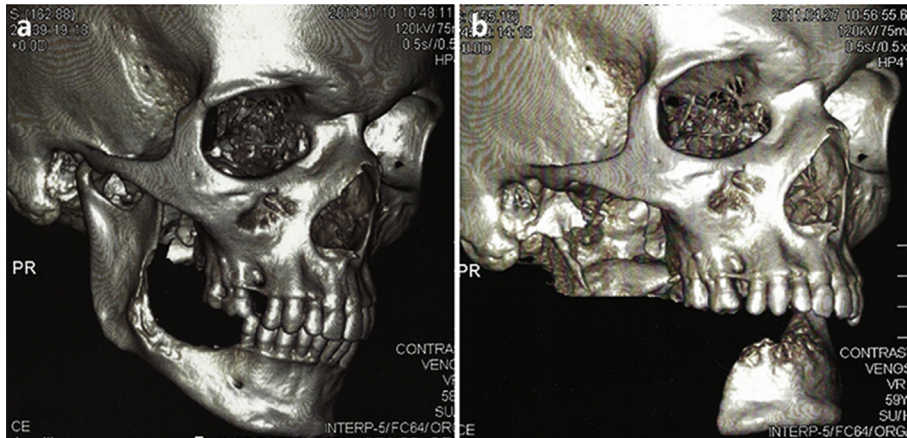


Fig. 1. (a) Pre-operative CT scan; (b) CT scan after the surgical resection.



Fig. 2. (a) Maxillary arch view after teeth extraction; (b) Mandibular arch view after partial mandibulectomy.

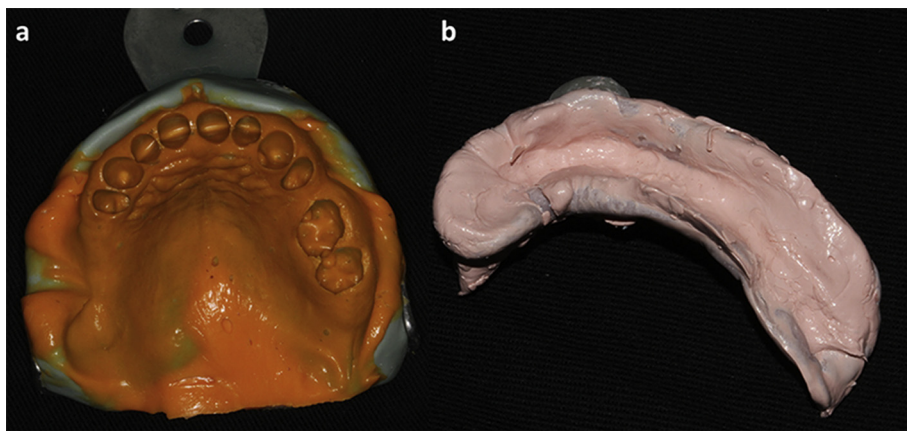


Fig. 3. (a) Definitive impressions of the maxillary and (b) mandibular arches.

to irradiated edentulous patients [6].

Thus, the aim of this study is to report a prosthetic rehabilitation of a patient after partial mandibulectomy on the right side with a conventional denture.

2. Presentation of case

A white male patient was admitted to the dental clinic (Aracatuba Dental School – UNESP, Aracatuba, Sao Paulo, Brazil) complaining about pain and dental mobility on the right side of the mandibular posterior region. After anamnesis, a computed tomography (CT) (Fig. 1) was performed, and the patient was

submitted to a biopsy. The final diagnosis was defined as epidermoid cancer on the mandibular alveolar ridge with infiltration staging IV A. This epidermoid carcinoma is uncommon malignant neoplasia in the oral cavity [7,8]. The first choice for treatment is surgery combined with radiotherapy [8]. Oral care is important when radiotherapy is performed due mucosistis, xerostomia and osteonecrosis [8].

The patient was submitted to a glosso-pelvi-mandibulectomy associated with a complete extraction of mandibular teeth, a partial extraction of maxillary teeth (Figs. 1 and 2), and unilateral cervical lymphadenectomy. After one month of surgical treatment, the radiotherapy was performed with a 5040 Gy dosage for 2

Download English Version:

<https://daneshyari.com/en/article/4195375>

Download Persian Version:

<https://daneshyari.com/article/4195375>

[Daneshyari.com](https://daneshyari.com)