



HEB

**Journal of Prosthodontics Dentistry (JOPD)**  
**An Official Publication of Bureau for Health & Education Status Upliftment**  
 (Constitutionally Entitled As Health-Education, Bureau)

JOPD

## **Fabrication of Cast Partial Denture in a case of Partial Maxillectomy following Mucormycosis post-COVID-19 using CAD-CAM technology for framework designing: A Case Report**

*<sup>1</sup>Dr. Sanjay B. Lagdive, <sup>2</sup>Dr. Rupal J. Shah, <sup>3</sup>Dr. Meet A. Dodia, <sup>4</sup>Dr. Nilesh Patel*

<sup>1</sup>Professor, Department of Prosthodontics, Government Dental College & Hospital, Ahmedabad.

<sup>2</sup>Professor & Head of Department, Department of Prosthodontics, Government Dental College & Hospital, Ahmedabad.

<sup>3,4</sup>Post graduate student, Department of Prosthodontics, Government Dental College & Hospital, Ahmedabad

**Correspondence Email ID: [serviceheb@gmail.com](mailto:serviceheb@gmail.com)**

### **ABSTRACT**

Maxillectomy defects are complex and involve several anatomic structures. Mucormycosis is a rapidly progressing and invasive form of fungal infection involving the nose and paranasal sinuses of head and neck region with high mortality and morbidity. Compromised immunological conditions like uncontrolled diabetics mellitus, Leukaemia, prolonged use of steroids are the most common predisposing factors for this disease and it is on the rise especially in post COVID-19 patients. Aggressive surgical debridement including resection of involved maxillofacial structures like orbit, maxilla and/or nose is the commonly used treatment protocol in such conditions leaving the patient in a compromised state post-operatively. Prosthodontic management of such patients is a challenging situation because of the lack of bony support, lack of retention due to dislodging forces exerted by scarred post-surgical tissue and associated comorbidities that may affect the healing of residual tissue.

This clinical report describes prosthetic rehabilitation of a patient with partial maxillectomy secondary to mucormycosis with a cast partial denture (CPD) designed using CAD-CAM technology providing complete functional and esthetic rehabilitation of the patient.

**Keywords:** mucormycosis management, prosthetic rehabilitation, cast partial denture, CAD CAM CPD

### *Access this Article Online*

Website:<http://heb-nic.in/jopd-issues/>

Quick Response Code:

Received on 31/01/2022  
 Accepted on 08/02/2022 © HEB All rights reserved

