



HEB's Journal of Prosthodontics Dentistry
An Official Publication of Bureau for Health & Education Status Upliftment
(Constitutionally Entitled as Health-Education, Bureau)

Clinical Management of a Severely Resorbed Mandibular Arch Using the All-on-4 Immediate Loading Protocol: A Case Report

Dr. Dushyant soni, Dr. Amrit Assi, Dr. Renu Choudhary, Dr. Dilip Hadiya

1. Head of Department, Department of Prosthodontics, Vyas dental college and hospital, Jodhpur
2. Professor of, Department of Prosthodontics, Vyas dental college and hospital, Jodhpur
3. Resident, Department of Prosthodontics, Vyas dental college and hospital, Jodhpur
4. Resident, Department of Prosthodontics, Vyas dental college and hospital, Jodhpur

Email Id: serviceheb@gmail.com

ABSTRACT:

Objective: To report the clinical management and short-term outcome of a full-mouth rehabilitation using an All-on-4 immediate-loading protocol after extraction of remaining maxillary and mandibular teeth; two-piece implants were placed in the lower anterior region with immediate provisionalization.

Rehabilitation of the completely edentulous mandible remains a significant challenge in prosthodontics due to compromised retention, stability, esthetics, and masticatory efficiency associated with conventional removable prostheses. The All-on-Four treatment concept has emerged as a predictable and minimally invasive approach for full-arch rehabilitation using strategically placed implants and immediate loading protocols.

Clinical report: A 50-year-old female patient presented wearing a maxillary complete denture and a mandibular fixed bridge that had been in function for 10 years and had become mobile. After diagnosis and treatment planning, remaining unrestorable teeth were atraumatically extracted. Four implants were planned in the maxilla using the All-on-4 concept; two standard implants were placed in the mandibular posterior and two two-piece implants were placed in the mandibular anterior region at the time of extraction to obtain primary stability and allow immediate loading. A rigid screw-retained provisional prosthesis was delivered within 48 hours to achieve immediate function and esthetics.

Clinical and radiographic evaluation demonstrated satisfactory osseointegration, improved esthetics, phonetics, stability, and patient satisfaction. follow-up at 3 and 6 months showed stable soft tissues, acceptable marginal bone levels, and patient satisfaction. The case highlights the effectiveness of immediate

loading protocols and strategic implant placement in reducing cantilever stresses and achieving successful full-mouth rehabilitation.

Keywords: All-on-Four, Immediate loading, Full mouth rehabilitation, Implant-supported prosthesis, Cantilever conversion, Edentulous mandible, Two-piece implant.

Access this Article Online	Quick Response Code: 
Website: http://heb-nic.in/jopd	
Received on 02/07/2026	
Accepted on 20/07/2026 © HEB All rights reserved	