Reg. No: RJ17D0105798 ISSN NO: 2582-0362

HEB JOPD

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

Retention Modalities in Maxillofacial Prosthetics Current Trends and Future Directions: A Review

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Abstract

Retention is fundamental to maxillofacial prosthetic rehabilitation, impacting function, esthetics, and patient comfort. Maxillofacial prostheses are essential for restoring defects caused by trauma, congenital anomalies, or surgical resections. Retention strategies can be categorized into anatomical, mechanical, adhesive, implant-supported, and hybrid techniques. Advances in biomaterials and digital technology have significantly improved these prostheses' retention, stability, and longevity. This review explores the classification of intraoral and extraoral prostheses, analyzes various retention methods, and discusses their advantages, limitations, and clinical considerations. The integration of osseointegrated implants, magnetic retention systems, and hybrid approaches has revolutionized prosthetic retention, enhancing patient outcomes. Future perspectives focus on bioengineered materials and 3D-printed retention components. This article provides a comprehensive analysis of retention strategies in maxillofacial prosthodontics, ensuring optimal prosthetic function and patient satisfaction.

Keywords: Maxillofacial prosthesis, Retention, Rehabilitation, Adhesives, Osseointegration, Attachments.

Access this Article Online	Quick Response Code:
Website:http://heb-nic.in/jopd	
Received on 14/02/2025	
Accepted on 21/02/2025 © HEB All rights reserved	