



Innovative Materials in Prosthodontics Dentures: A Comprehensive Review

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Abstract

Innovative materials have significantly advanced the field of prosthodontic dentures, offering enhanced properties that improve both functional performance and aesthetic outcomes. This comprehensive review explores the evolution, characteristics, and clinical applications of these materials in prosthodontic dentures. Key advancements include dental ceramics known for their superior aesthetics and durability, polymer composites that provide flexibility and biocompatibility, and metal-free options like polyetheretherketone (PEEK) and carbon fiber-reinforced

Reviewed: 20-May-2024, QC

No: did-24-141518, **Revised:** 27-May-2024, Manuscript No: did-24-141518 (R)

Published: 31-May-2024, DOI: 10.4172/did.1000245

Citation: Levy S (2024) Innovative Materials in Prosthodontics Dentures: A Comprehensive Review. *J Dent Sci Med* 7: 245.

Keywords:

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Indexing:

Material and Method

A comprehensive literature search was conducted across multiple databases including PubMed, Scopus, and Web of Science to identify relevant studies published between 2010 and 2024. The search terms included 'innovative materials', 'prosthodontics', 'dentures', 'PEEK', 'ceramics', and 'polymer composites'. The search was limited to English-language articles. The identified articles were screened based on their titles and abstracts to determine their relevance to the review. Full-text articles were obtained for those that met the inclusion criteria. The data extracted from these articles included the material type, its properties, and its clinical applications in dentures.

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