

An Overview on the Cutting Edge Nanotechniques towards Dentistry for Effective Theranostics

Lakshmipathy Muthukrishnan¹

¹Saveetha Institute of Medical and Technical Sciences

November 26, 2022

Abstract

Nanotechnology has expanded its wings in almost all sectors with special attention toward health, pharmacology and clinical diagnosis. Research studies investigated at the atomic and molecular level had contributed at large for this rapid technological expanse. This superior and compatible nano based approach has opened new vistas in identification of oral health related issues and its resolution by designing biocompatible (nano) dental materials in Nanodentistry. This review highlights a general overview of the evolution of Nanodentistry, novel nanomaterials and their potential dental applications with special relevance to restorative dentistry and periodontics. Relevance toward timely and precision diagnosis and the treatment regimen toward biofilm induced periodontal infections have also been briefly described and illustrated. Although, nano in dentistry are still at their infancy, there are some commercially available products developed for dental applications which are also enlisted in this review.

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