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Graphene Coatings in Dental Implants- A Literature Review

¹Dr. Vivien Vaz, ²Dr. Abhilash Anantharaju

¹ Post graduate student, Department of Prosthodontics, Sharavathi Dental College and Hospital, NH 206, T. H. Road, Alkola, Shivamogga-Karnataka. 577204

²Professor, Department of Prosthodontics, Sharavathi Dental College and Hospital, NH 206, T. H. Road, Alkola, Shivamogga-Karnataka. 577204

Email Id: serviceheb@gmail.com

ABSTRACT

In recent years dental implants are most commonly used to replace missing teeth. Titanium (Ti) implants are considered the best as they are biocompatible, reliable and predictable. Titanium implants are open for improvements. Several surface treatments have been developed in the last few years to improve the properties of titanium dental implants. One such surface treatment is that of graphene, which creates an overall improved benefit. These include increasing the deposition of mineralized matrix. It is biocompatible and promotes cell proliferation. Graphene coating of Ti implants has also proven to create antibacterial properties on implants. Graphene and its derivatives when coated on titanium implant have remarkable abilities to improve properties of titanium. These characteristics place them under the spotlight for improvement and modification of implant materials.

Key words: Graphene coatings, Graphene dental implants, Titanium coated dental implants.

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