THE IMPLICATIONS AND APPLICATIONS OF NANOTECHNOLOGY IN DENTISTRY

Rawan AlKahtani[a]*

[a] *Lecturer, College of Dentistry, Princess Nourah bint Abdulrahman University: Riyadh, Saudi Arabia*

Abstract

The emerging science of nanotechnology, especially within the dental and medical fields, has sparked research interest in regards to the level of improvement these quantum particles can achieve in comparison to conventional materials used. Understanding the science behind quantum technology is essential to appreciating how these materials can be utilised in our daily practice. The present paper will help the reader understand the technology itself through acknowledging its benefits and limitations and reviewing the science behind it and the ethical, social, health, and environmental implications of nanotechnology. Additionally, applications of nanotechnology in dental diagnostics, dental prevention, and dental materials will be discussed, including a variety of commercially available products and supporting evidence.



Biography: Dr. Rawan AlKahtani is a lecturer in the Restorative Dentistry Department at Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia. She graduated from King Saud University with a bachelor in Dental Science, followed by a Masters degree in Clinical Restorative Dentistry from Newcastle university, UK. She additionally obtained a certificate in nanotechnology from University of Oxford and a certificate in clinical research from Harvard University. She is currently a PhD researcher in the institute of cellular medicine, School of Dental Sciences, Newcastle University, UK.

Email: r-alkahtani@hotmail.com

Keywords: nanodentistry, nanotechnology, nanomaterials.

Notes/Comments: