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Introduction To Laser Dentistry

The introduction of laser in dentistry, in the 1960s, by Miaman, led to a continuous research in the various applications of lasers in dental practice. There are two scenarios, on the one hand, there are hard lasers, such as, Carbon dioxide (CO₂), Neodymium Yttrium Aluminum Garnet (Nd: YAG), and Er:YAG(Cr), which offer both hard tissue and soft tissue applications, but have some limitations: whereas, on the other hand there are cold or soft lasers, based on the semiconductor diode devices, which are compact, low-cost devices . Laser use in dentistry has expanded and improved some treatment options for clinicians who have adopted this technology

The objective of this lecture is to provide an overview on :

- 1-How do lasers work in dentistry
- 2-What are the common components of all lasers devices
- 3-Laser physics and laser tissue interaction
- 3-The advantages of using this technology in private clinic
- 4-The kinds of devices that are the best to use for every dental specialty

Methods: A recent review about the use of lasers in dentistry was conducted .

Results: Dentistry today is evolving tremendously and the use of lasers in dentistry is a double –edged sword : if it is properly used, laser can be an initial and/or additional tool in our daily practice , whereas if it is misused it can lead to catastrophic results.

Biography

Randa Zein MD, DSS , PHD candidate . She was completed her MSc laser dentistry university of Genoa Italy, Restorative and Esthetic specialist Toulouse university –France. She is a Head of the laser division in the international unions of universities. She is doing Private practice at Lebanon Beirut – Hamra – Main Street. She had many article on Laser Dentistry and she is Authors and co- author of several articles on laser dentistry

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