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Laser: from fundamental principles to applied pediatric dentistry**Nagy Abdulsamee***Deraya University, Egypt*

Over the past two decades, the use of lasers in dentistry has progressed significantly. While soft tissue lasers were first introduced, they are now commonly used on dental hard tissue as well, thanks to the advent of new generation lasers. Commonly used laser in dentistry includes Nd:YAG, Er:YAG, Er,Cr:YSGG, CO₂, and diode laser. Treating a pediatric patient with a laser for oral and dental procedures is advantageous because it reduces the child's anxiety and improves parental acceptance. In children, laser have many applications in pediatric dentistry like caries prevention, early diagnosis, cavity preparation, traumatized tooth management, and minor oral surgical procedures. While the use of lasers may pose some risks and necessitate some precautions, its use in pediatric dentistry appears to be on the verge of becoming the gold standard. Pediatric dentists should prepare themselves for the new era of laser by knowing laser basics, classification of different types of lasers, possible hazards and means of protection against these hazards, and advantages and limitation of laser which is the aim of this lecture.

Biography

Nagy Abdulsamee is the Consultant Prosthodontics and Head of Dental Biomaterials, Deraya University. His specialisations include Laser and Implant Dentistry. His research works include Zirconomer and zirconomer improved (white amalgams): Restorative materials for the future; Erbium Family Laser: Silent Revolution in Dentistry, Expanded Tentacles of Cold Plasma Energy in Dentistry–Review; Shrinkage of Dental Composite Resin: Contemporary Understanding its Enigmas and How to Solve; Soft and hard dental tissues laser Er: YAG laser: from fundamentals to clinical applications. Review Article.