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Laser in Dentistry

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The oral cavity is a complex environment, where hard and soft tissue exists in close proximity and all within bacteria laden saliva. All oral tissue are receptive to laser treatment. **LASER** is an acronym of **L**ight **A**mplification by the **S**timulated **E**mission of **R**adiation. According to the clinical use in dentistry we know soft-tissue, hard tissue, and so called all-tissue lasers. Another classification is based on laser wavelength in the electromagnetic spectrum of light: ultraviolet, visible, near, mid, and far-infrared laser. The basic component of laser are: the optical cavity, the active medium which characterizes the wavelength of specific laser, the pumping source, the controller, the delivery system that transport the laser energy to a terminal handpiece and tips and finally to the tissue. Most of the laser wavelength used in dentistry fall in the visible and infrared spectrum. The medium-infrared laser represent the all-tissue lasers, for application on both the mucosa and gingiva, tooth, and bone. The visible, near and far-infrared laser are mainly used for soft-tissue application, some of them are use for caries detection and biostimulation. The interaction of laser light with tissue follows the rules of optical physics. Laser beam can be reflected, absorbed, diffused, and transmitted. The selectivity of action depended on the affinity between a wavelength and a target tissue.

Biography

Barbara Škrlić Golob graduated in the Department of Dentistry, Faculty of Medicine at the University of Ljubljana (Slovenia) in 2000. In 2016, she obtained her MSc Degree in Laser Dentistry from the University of Genoa (Italy) and another MSc Degree (Master in Clinical and Surgical Microendodontics, under supervision by Professor Elio Berutti) from the University of Turin (Italy) in 2017 respectively. In 2007, she started with private practice. In 2011, she got involved in first laser workshop in Aachen (Germany) where she received a Certificate of LSO and AALZ Dental Laser. One year later, she received PIPS Certificate awarded by Professor Giovanni Olivi (Rome).

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