Fotona

Enhancing laser endodontics

Fotona’s proprietary ASP (Adaptive Structured Pulse) technology represents a step forward with respect to controlling laser pulses in the temporal domain. By introducing a revolutionary new SWEEPSTM (Shock Wave Enhanced Emission Photoacoustic Streaming) mode, developed to further improve the cleaning and disinfecting efficacy of LightWalker’s laser-assisted PIPS® endodontic procedures. Although the PIPS® irrigation is very effective, its cavitation dynamics is still much slower than what it could be if not slowed down by the friction on the root canal walls. With the specially adapted SWEEPSTM pulse structure, a faster photoacoustic collapse can now be produced even in narrow root canals, resulting in the emission of a large number of enhanced pressure waves throughout the canal. This is a very exciting development. With SWEEPSTM-supported endodontics, you not only improve the streaming of irrigants throughout the complex root canal system, but also enhance the direct removal of the smear layer and disinfection, potentially eliminating the need for the use of aggressive irrigants.

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BIOLASE

Worldwide launch of new all-tissue laser system

BIOLASE, the global leader in dental lasers, announced today that its new, fifth-generation Waterlase Express™ all-tissue laser system, having received 510(k) clearance for commercial distribution from the U.S. Food and Drug Administration (FDA), is available for immediate sale to dentists in the US as well as select international markets in Europe, the Middle East and Asia. Waterlase Express was first unveiled internationally in Cologne, Germany, at the International Dental Show (IDS), which is the world’s leading trade show for the dental industry.

With extensive qualitative and quantitative research from a team of dentists around the world guiding the design of the system, Waterlase Express represents the new foundation of the Company’s strategy to greatly expand all-tissue laser use in dentistry.

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Contact-free incision

High performance for dental surgery, parodontology and implantology—this is possible with LASER blue® by cumdente. The blue light laser is superior to diode laser (infrared) due to its high effectiveness and incision efficiency at low energy parameters. One main advantage of the blue light laser is its property of being more tissue-conserving. Due to contact-free incision without touching any tissue and immediate entry into tissue ablation there is minimal tissue damage and no thermal tissue disruption or damage to contiguous structures such as tooth or implants. Furthermore, no delay effects with simultaneously minimised fibre optic wear and tear appear. With LASER blue®, practitioners can rely on an optimised incision effectiveness and haemostasis during the treatment with minimal biological side effects and coagulation. The device’s antimicrobial effect and disinfection of contaminated tissue round off the picture. Currently, no disadvantages are known for the wavelength of this high performance laser, which makes it a perfect alternative for scalpel or HF units. Thanks to the mobile equipment with integral battery pack, one can immediately start using the blue light laser. The very simple touch screen controls allow 10 settings for each indication, which makes LASER blue® a perfect device for surgery, parodontology, implantology, endodontics, prosthetics as well as aesthetics.

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