

# Revolutionary laser system was presented in Israel

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During an extraordinary training session in Tel Aviv, Israel, a revolutionary type of dental lasers has been presented to the participants. This new technology seems to resolve most of the main technological hurdles in laser dentistry.

In co-operation with NMT Munich, Germany, and Syneron Dental Lasers dentists from Germany and Bulgaria had the chance of getting to know the ground breaking laser technology. The LiteTouch™ Er:YAG-Laser (wavelength 2,940 nm) works with the so called "Laser-in-the-Handpiece™"-technology. Thereby the laser is generated in the handpiece itself and does not need to be transmitted via fibre of a laser engine. This new design is a revolution in itself. The previous fibre technology is too susceptible to failure and thus too expensive in maintenance.

Therefore, the technological risk is also an economical risk for the investing dentist. Not few dentists bought expensive laser machines in the past and realized that they were not suitable for everyday use.

The LiteTouch™ provides the doctor with the security and handling flexibility which is needed for a successful therapy. Ira Prigat, President of Syneron Dental Laser, sums it up: "With a conventional laser with a fibre the dentist cannot concentrate fully on his job. He needs to be concerned about the bulky, susceptible and pricey fibre." – And this is where Syneron comes up with the solution.

In 2007, physicists, engineers and laser specialists came up with a new laser concept: the "Laser-in-the-Handpiece™"-technology. This compression is a milestone in industrial history. Furthermore the LiteTouch™ can be used for soft and hard tissue therapies and covers a vast spectre of indications: implantology, restorative dentistry, periodontics, paediatric dentistry and soft and hard tissue surgery etc.

Especially with the possibilities of minimal invasive treatment unnecessary traumata of healthy tissue can be avoided. In addition a new range of dental therapy opens up. The wound healing improves due to





the disinfecting effect of the laser. The patient can anticipate less swelling and bleeding. Obviously, this is not a unique feature of the LiteTouch™—however its flexibility, controllability, indication spectre, its efficiency, reliability and compactness seem to be unparalleled.

Prigat emphasises as well that the outer design has a decisive impact on the daily practice: "Ultimately we treat humans, and if our patients are already intimidated by the enormous size and noise of the laser engine, we cannot use the laser as often as we would like to. And this is not economical." In contrast the LiteTouch™ is a very small and compact device which weighs just about 20 kilos and is just as big as a common computer terminal. One can imagine that in the future this new technology is a fully integrated part of the treatment unit.

Asked how Syneron wants to approach such a conservative market like Germany, Prigat said that a tailor made concept is decisive. "What are the requirements and demands? It is not enough to sell a laser. Long-term support is necessary. You cannot change

the work habit of a dentist from one day to the other. That is why we train our customers step-by-step with the help of our German distributors." This intention was met by the personal training of the German dentists in Israel.

In his seminar, Dr Avi Reyhanian, renowned international laser specialist from Israel, demonstrated the practical advantages of periodontal therapy with the LiteTouch™. Dr Mark Levin, Tel Aviv, addressed the advantages of the D-Touch™ (wavelength 810 nm, 980 nm) that can be used in periodontics, endodontics and soft tissue management. In bio-stimulation and aesthetic therapy the D-Touch™ can be used as well. This was confirmed in Dr Levin's clinic during the next day, where the participants could follow several laser treatments via live video stream.

The Israel journey was completed by visits to the best restaurants in Tel Aviv in the evening and a historical trip to Jerusalem and the Dead Sea. All together, the participants were convinced by this extraordinary event. They will return home with new ideas for their own laser dentistry. \_

