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choose perfection

The universe at your fingertips.

TwinLight™ Endodontic Treatment

Looking for effective endodontic treatment?

- High success rates with no need to repeat procedures
- Preserves more tooth endoskeleton
- No risk of ledging and demineralization
- Faster, safer and more effective
- Minimally invasive
- No more physical strain associated with conventional root canal cleaning

Available only with

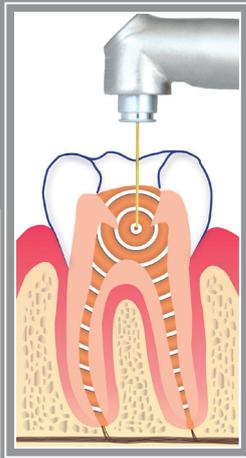
www.lightwalkerlaser.com



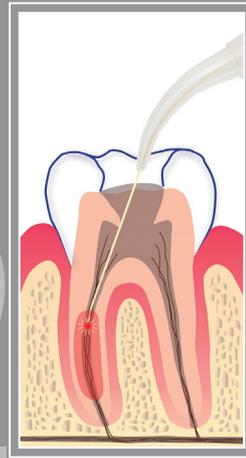
LightWalker®

www.fotona.com

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In the first step, Er:YAG laser light cleans and debrides the canals and subcanals.



In the second step, the Nd:YAG laser deeply disinfects the dentinal walls.

What is TwinLight™ Endodontic Treatment (TET)?

TET is a revolutionary method for cleaning and disinfecting the root canal system using a combination of Er:YAG and Nd:YAG laser energy and available only with the LightWalker laser. With TET practitioners are able to offer patients faster, safer and more effective root canal treatments.

How Does TET Work?

TET successfully addresses two major disadvantages of classical chemo-mechanical treatments procedures: the inability to clean and debride anatomically complex root canal systems and the inability to deeply disinfect dentinal walls.

The procedure is performed in two simple steps:

Step 1: The revolutionary PIPS® method is employed, which uses the power of the Er:YAG laser to create non-thermal photoacoustic shock waves within the cleaning and debriding solutions introduced in the canal. The canals and subcanals are left clean and the dentinal tubules are free of a smear layer.

Step 2: The deeply penetrating Nd:YAG laser wavelength is utilized to decontaminate dentinal walls up to 1000 µm deep. In this step, the high peak-pulse power of the Nd:YAG laser plays an important role as it induces maximum disinfecting temperature pulsing for eliminating bacteria.

Optimizing Dentistry's Two Best Laser Wavelengths

Utilizing both Er:YAG and Nd:YAG laser

wavelengths in a treatment makes optimum use of the unique laser-tissue interaction characteristics of each wavelength. For example, Er:YAG induces shock waves in the cleaning solutions and the Nd:YAG has a superior bactericidal effect. Combined, they can dramatically improve the outcome of laser assisted endodontic treatments, guaranteeing maximum efficacy.

Why is LightWalker Perfect for TET?

In the TET approach, available only with LightWalker, the super short, 50 microsecond pulse duration combined with the efficient design of the Er:YAG tip, allows the lowest possible energy per pulse and repetition rate. This minimizes thermal effects and maximizes the propagation of the photon induced photoacoustic shock waves in Step 1 of the TET approach.

The Nd:YAG VSP peak-pulse power allows three times deeper disinfection of dentinal walls than other lasers. It effectively eliminates all types of bacteria.

Combining dentistry's two best wavelengths Er:YAG and Nd:YAG in one system also allows the practitioner to quickly and conveniently switch between Er:YAG and Nd:YAG while performing TET.

Additionally, LightWalker features the ultimate in convenience and ergonomics. Its easy-to-use touch screen offers a simple menu of pre-programmed endodontic treatments. You pick the treatment and the laser automatically sets your optimum starting parameters.

Exclusive Advantages of TET for You and Your Patients

An important advantage of laser endodontic treatment is that healing is much faster so patient acceptance is very high. Overall treatment time is also shortened because

the heat from the laser effectively cleans and disinfects the canals from bacteria and so fewer follow-up visits are required than with conventional treatments.

Higher Success Rates

Clinical experience shows that TET is much more effective than traditional methods. Namely, there is deeper disinfection efficacy, more effective root canal cleaning, reduction of permeability and reduction of micro-leakage.

Dental lasers are the perfect tool for fast, easy to perform, and extremely effective treatment of root canal infections and a patient-friendly alternative to conventional techniques.

Getting Started with TET

The LightWalker training program is organized in cooperation with The Laser and Health Academy (www.laserandhealth.com). During an intensive two-day workshop participants cover basic laser physics and gain an in-depth understanding of laser-tissue interaction. Hands-on sessions under guidance of laser dentistry experts help participants gain insight in the effects of Er:YAG and Nd:YAG laser light on different tissues. Presentations and discussions are led by Laser and Health Academy Lecturers and cover dental therapies, which include TET.

Fotona also works closely with AALZ (Aachen Dental Laser Center) in Germany. The AALZ, a leading international center for dental laser education, offers additional high level training to help you on your path to becoming a top laser specialist.

Practitioners can gain a deeper knowledge of the PIPS procedure by attending the LightWalker Advanced Endodontics Training Course led by Dr. E. DiVito, Dr. G. Olivi and Dr. M. Colonna.

*PIPS is patent pending innovation developed by Fotona's partner MDATG, LLC.
www.pips-endo.com

To learn more about TET and what LightWalker can do for your practice contact Fotona at info@lightwalkerlaser.com today.