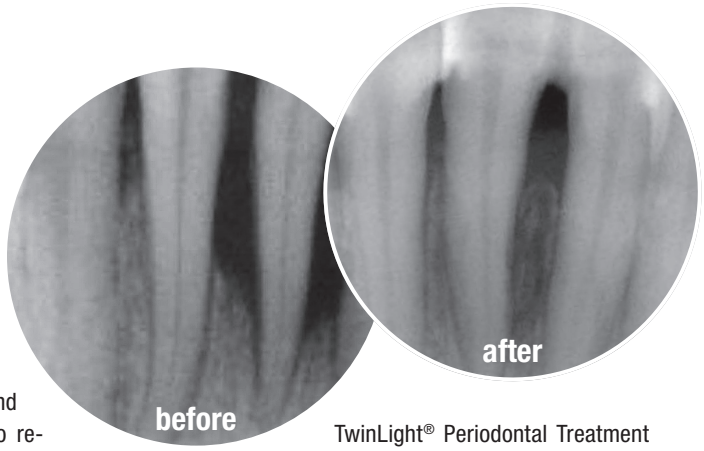
Fotona

Laser-based periodontal therapy



A study recently published in the *Journal of the Laser and Health Academy* on periodontal tissue regeneration following Fotona Twinlight® Er:YAG and Nd:YAG Periodontal Therapy has revealed the ability of the combined TwinLight® laser treatment of chronic periodontitis to promote bone regeneration. Four private dental practices conducted a retrospective case series analysis of the before and after radiographic images of patients who received Fotona TwinLight® Periodontal Treatments.

The TwinLight® procedure is performed in three simple steps. In step 1, the Nd:YAG laser removes the diseased epithelial lining of the periodontal pocket and improves access to the root surface. In step 2, the Er:YAG laser is used to thoroughly remove microbial biofilm and calculus from the root surface. In the final step 3, The Nd:YAG laser energy is used to coagulate and promote the formation of a stable fibrin clot. This allows the wound to heal and the periodontal ligament to regenerate which in turns allows new attachment to take place.

The analysed images provide evidence of periodontal tissue regeneration following the combined Fotona TwinLight® treatment. This evidence is in addition to the previously published evidence of probing depth reduction and clinical attachment level gain in medium deep periodontal pockets. The non-surgical Fotona TwinLight® Periodontal Treatment with the complementary effects of the Er:YAG and Nd:YAG laser thus promises to become a preferred alternative treatment for moderate-to-severe chronic periodontitis.

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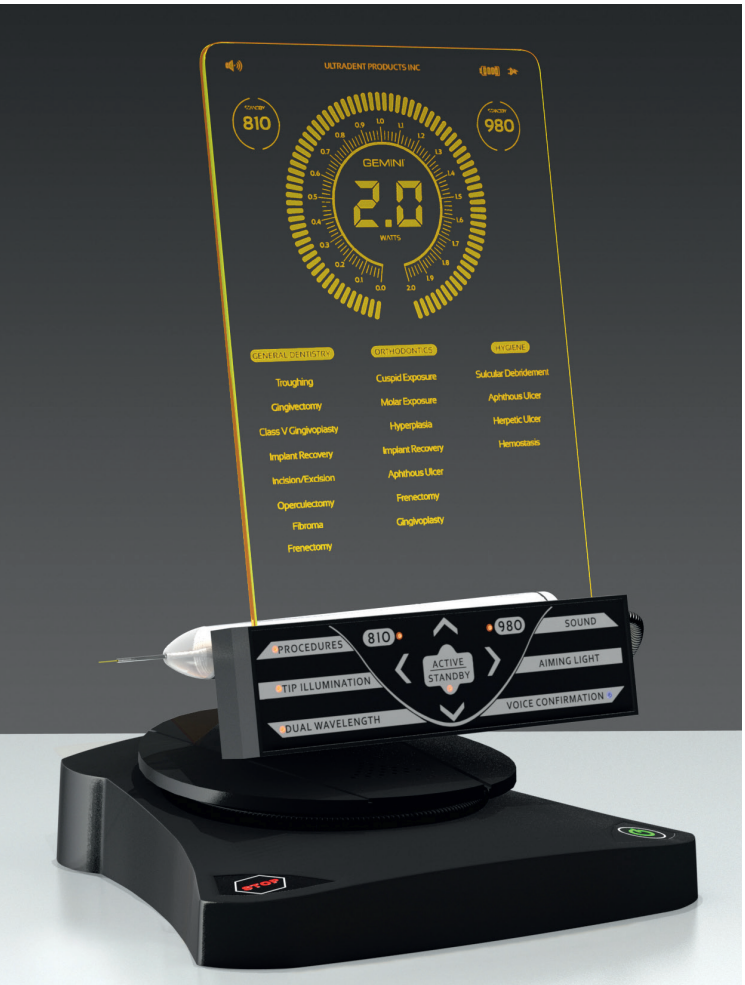

Ultradent Products

Increasing treatment quality with two wavelengths

Ultradent Products Gemini 810 + 980 diode laser is the first and most powerful diode laser for soft tissue treatment with two wavelengths. The Gemini can use both wavelengths simultaneously: this dual wavelength technology combines melanin absorption at a wavelength of 810 nm and water absorption at a wavelength of 980 nm. With an output of 20 watts, short but efficient power phases are possible allowing the soft tissue to effectively cool down during the procedure. Thus, super-pulsed energy reduces thermal damage and increases patient comfort, as a result of reduced bleeding, inflammation and pain, less need for sutures and a faster healing process.

The illuminated handpiece tip improves the practitioners view of the surgical field. The Gemini fibre tips are pre-activated and may be bent to the required shape. With its wireless Bluetooth foot switch the compact device provides a maximum of flexibility. The innovative design incorporating a transparent electroluminescent display does not only look good but is at the same time very practical: the 19 pre-set programmes may be selected directly. The displayed parameters can be altered when necessary.

Dentists can benefit from the innovative Gemini 810 + 980 diode laser as it increases the quality and comfort of soft tissue surgery and with this achieves a higher patient satisfaction.

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