The Waterlase MD™ is a revolutionary dental device that uses a combination of YSGG laser energy and water, a process called HydroPhotonics,” to perform many traditional dental procedures with less anesthetic. By enabling a less invasive, more precise form of treatment that preserves healthy tooth structure, the Waterlase MD™ transforms the experience for both you and your patients.
Many procedures performed with the Waterlase MD™ do not require injections, reducing patient fear and anxiety by creating a more gentle and relaxing atmosphere. Patients typically experience less bleeding, swelling and post-op discomfort, and require less pain medication. Procedures that once took several appointments to complete, such as restorations in multiple quadrants, can now be finished in just one visit. The Waterlase MD™ also creates a better bonding surface for restorations.

“I went to a Waterlase dentist to have a cavity filled and it was all done with no shot, no drill. The dentist used the Waterlase and it was the procedure I’ve been waiting for my whole life!”

SHELLY HOGLAN
Glendale, California
EXPAND YOUR CLINICAL CAPABILITIES

Your patients expect you to provide all their dental needs. The laser and the training you will receive will help you provide more services for your patients. The Waterlase MD™ enables you to perform a wider range of procedures and significantly expand your clinical capabilities.

HARD TISSUE PROCEDURES

- Class I, II, III cavity preparations
- Class IV, and V cavity preparations
- Children's cavity preparations
- Cavities removal
- Hard tissue surface roughening or etching (enameloplasty, excavation of pits and fissures for placement of sealants)
- Tooth preparation to obtain access to root canal
- Root canal preparation including enlargement
- Root canal debridement and cleaning
- Cutting bone to prepare a window access to the apex (aprices) of the root(s)
- Apectomy amputation of the root end
- Root end preparation for retrofill (amalgam or composite)
- Osseous crown lengthening
- Cutting, shaving, contouring and resection of oral osseous tissues
- Osteoplasty and osseous recontouring (removal of bone to correct osseous defects and create physiologic osseous contours)
- Osteotomy (resection of bone to restore bony architecture, resection of bone for grafting, etc.)

INJECTION/ANESTHETIC INDEX

With training and additional experience, injection/anesthetic results may improve.

INJECTION/ANESTHETIC INDEX

* Topical anesthetic may be used at the dentist’s discretion for some soft tissue procedures.

“IT’S EASY TO QUANTIFY WHAT THE LASER HAS DONE FOR MY BUSINESS: REFERRALS HAVE GONE UP, PRODUCTION IS INCREASING, AND I AM DOING A WIDER RANGE OF PROCEDURES THAN EVER BEFORE.”

CHRIS WALINSKI, DDS
Fall River, Massachusetts

WATERLASE WAS THE FIRST DENTAL LASER CLEARED FOR CUTTING ORAL OSSSEOUS TISSUES AND PERFORMING APICECTOMY.

SOFT TISSUE PROCEDURES

- Incision, excision, vaporization, ablation and coagulation of oral soft tissues
- Excisional and incisional biopsies
- Exposure of unerupted teeth
- Fibroma removal
- Flap preparation — incision of soft tissue to prepare a flap and expose the bone
- Frenectomy and frenotomy
- Surgical touting for crown impressions
- Gingivectomy
- Hemostasis
- Implant recovery
- Incision and drainage of abscesses
- Graftectomy
- Pulpotomy
- Pulpectomy
- Pulpectomy as an adjunct to root canal therapy
- Root canal debridement and cleaning
- Removal of pathological tissues from around the apex
- Soft tissue crown lengthening
- Sutural debridement
- Treatment of canker sores, herpetic and aphthous ulcers of the oral mucosa
- Vestibuloplasty
- Flap preparation — incision of soft tissue to prepare a flap and expose unerupted teeth (hard and soft tissue impactions)
- Removal of granulation tissue from bone defects
- Laser soft tissue curettage

INJECTION/ANESTHETIC INDEX

Always Use
Never Use
BE LESS INVASIVE AND PRESERVE TOOTH STRUCTURE

The precision and accuracy of the Waterlase MD™ allows you to treat targeted areas of tooth structure and soft tissue, while maintaining the structural integrity of the tooth and leaving surrounding areas unaffected.

Studies have shown that the Waterlase MD™ is less invasive and less traumatic than the drill, scalpel or electrosurge. Less invasive means more preservation of healthy tooth structure and tissue.1,2,3

"The Waterlase MD™ allows me to provide conservative dentistry, preserving as much sound tooth structure as possible with no injections for many procedures. At the end of the procedure, the parents of my patients want to know if they can go next and are not happy to hear that I treat only children in my practice. Their next question is always, ‘Where can I find a general dentist with one of these machines?’"  
STUART BLUMENTHAL, DDS, private practice limited to Pediatric Dentistry  
Lutherville, Maryland

2. Lee CY; procurement of autogenous bone from ramus with simultaneous mandibular third-molar removal for bone grafting using the Er,Cr:YSGG laser: a preliminary report; j of Oral implantology, March 2005  
6. Sung EC, et al;  composite Resin Bond Strength to primary Dentin with YSGG laser; journal of clinical pediatric Dentistry; vol. 30 Fall 2005

"The Waterlase MD™ allows you to treat targeted areas of tooth structure and soft tissue, while maintaining the structural integrity of the tooth and leaving surrounding areas unaffected."
Use the Waterlase MD™ along with conventional instruments to provide procedures normally performed by endodontists, periodontists, and oral surgeons. Simplify your patients’ lives by serving more of their needs in your office.

"With the advent of the Waterlase MD™ a dentist can prepare any tooth surface and all cavity classifications with more precision and conservation of tooth structure."

JOSEPH WHITEHOUSE, DDS
Past President, World Congress of Minimally Invasive Dentistry
Castro Valley, California

PERIODONTAL, ORAL SURGERY AND IMPLANT PROCEDURES
Whether performing laser curettage for periodontal pockets, uncovering an implant, creating an ideal emergence profile, harvesting a bone graft, or exposing a partially erupted tooth, the Waterlase MD™ is ideal for many common and advanced surgical procedures performed by periodontists, oral surgeons, prosthodontists and GP’s.

SITE-SPECIFIC PERIOD/LASER CURETTAGE

IMPLANT EMERGENCE PROFILE

RESECTION OF BONE FOR GRAFTING

RESECTION OF BONE FOR GRAFTING

ROOT CANAL DEBRIDEMENT

FRENECTOMY

ENDODONTIC, ORTHODONTIC AND PEDIATRIC PROCEDURES

Waterlase MD™ applications in endodontics include canal access and debridement. It is equally effective in orthodontics, in recontouring hyperplastic tissue around braces, and performing circumferential supracrestal fiberotomies and frenectomies. Kids and their anxious parents may appreciate the Waterlase MD™ most of all because it allows dentists, in most cases, to perform pediatric procedures such as cavity preps in multiple quadrants and pulpotomies with less anesthetic.

CLASS V CAVITY PREPARATION

3. Browdy DP; The Utility of the 4th generation Er:YAG All-Tissue laser for Modern Endodontics; PPAD; 2005
4. Dean B; Concepts in Laser-Assisted Periodontal Dental Economics; October 2005
5. Lee CY; Procurement of Autogenous Bone from the Ramus; Journal of Oral Implantology; March 2005
6. Jacobson B; Class II with YAG; Journal of Clinical Pediatric Dentistry; 2004
AN IMPORTANT AND FUNDAMENTAL INVESTMENT IN YOUR PRACTICE

In addition to enabling you to expand your clinical capabilities and provide better care for your patients, the MD will also have a huge positive effect on the business side of your practice.

Every practice is different, but as this example shows, the return on investment that a laser provides can dramatically enhance your practice in many ways.

WATERLASE MD™ CASE STUDY

<table>
<thead>
<tr>
<th>Old Practice</th>
<th>New Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>“High Volume, High Overhead”</td>
</tr>
<tr>
<td><strong>Structure</strong></td>
<td>6 operatories</td>
</tr>
<tr>
<td>13 staff</td>
<td>4 staff</td>
</tr>
<tr>
<td><strong>No. of Patients per Day</strong></td>
<td>35-40</td>
</tr>
<tr>
<td><strong>No. of Work Days per Week</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Monthly Production</strong></td>
<td>$120,000</td>
</tr>
<tr>
<td><strong>Time to Accomplish</strong></td>
<td>10 years</td>
</tr>
<tr>
<td><strong>Overhead</strong></td>
<td>80%</td>
</tr>
<tr>
<td><strong>Typical Monthly Net Income</strong></td>
<td>$24,000</td>
</tr>
<tr>
<td><strong>Outlook</strong></td>
<td>Mature, Stable</td>
</tr>
</tbody>
</table>

“Fewer Patients, Higher Profit

Age, Monthly Production vs. Net Income with the Impact of Overhead

<table>
<thead>
<tr>
<th>Gross Production</th>
<th>Net Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old Practice</td>
<td>New Practice</td>
</tr>
<tr>
<td>$140,000</td>
<td>$120,000</td>
</tr>
<tr>
<td>$120,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>$100,000</td>
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<td>$20,000</td>
<td>$0</td>
</tr>
<tr>
<td>$120,000</td>
<td>$24,000</td>
</tr>
<tr>
<td>$28,350</td>
<td>$28,000</td>
</tr>
</tbody>
</table>

For others like me who have been in practice for 20 plus years, the laser gave me a new sense of pride in my profession as well as the ability to offer better patient care.”

BO TURNAGE, DDS
Friday Harbor, Washington

INTEGRATED PATIENT MARKETING SYSTEM

The dramatic benefits that patients see in Waterlase Dentistry™ are a powerful way to set your practice apart from others, to attract new patients, and grow your practice. To help market the Waterlase MD™ every Waterlase Dentist receives an Integrated Patient Marketing System which includes step-by-step tutorials, and interactive marketing materials combined with a custom print website.

Waterlase Dentistry™ Marketing Website
Professional designs. Fully customizable. Highly effective. WaterlaseMarketing.com is truly your one-stop shop for everything Waterlase Dentistry.
EXPAND YOUR LASER DENTISTRY OPTIONS AND CAPABILITIES

The MD Gold™ Handpiece – Optional Accessory
• Increased cutting speed and efficiency reduces chair time per patient
• Increased cutting precision for even more conservative, minimally-invasive techniques
• Enhanced “sweet spot” for even greater ease of use and efficiency

ZipTips™ Disposable Tips for the Waterlase MD – Optional Accessory
• A new tip for each patient provides a higher potential standard of cleanliness and efficiency
• Eliminates repeated tip sterilization, saving time and money for productive activities
• Delivers high performance from your MD with every procedure
• Reduces need for tip inspection and cleaning

Every ZipTip™ you use will increase your production, and make your patients smile.
HYDROBEAM™ ILLUMINATED GOLD HANDPIECE

Featuring ultra white, shadow-free illumination through built-in LED light technology, this 360º fully rotating contra-angle handpiece offers maximum visibility and access, increased comfort, and lasting durability.

SENSATOUCH™ LASER CONTROL SYSTEM

Thanks to the high-resolution Windows® CE touch-screen control panel, this innovative navigational system incorporates 16 factory-loaded pre-sets, variable pulse repetition rates, hard and soft tissue pulse modes, settings for enhanced coagulation capabilities, and variable power settings for a completely customizable experience.

TECHNICAL SPECIFICATIONS

- Wavelength: Er:Cr:YSGG, 2780 nm
- Power: 0.1 to 8.0 W
- Repetition Rate: 10 to 50 Hz
- Pulse Energy: 300 mJ
- Laser Classification: 4
- Operating Voltage: 100-230 VAC
- Dimensions: 10.5 x 13 x 32 in
- Weight: 75lbs

Additional US and international patents pending.

*S specifications subject to change without notice.
The Waterlase MD™ might just rejuvenate the passion that originally led you to becoming a dentist. Waterlase Dentists report they are experiencing a new level of personal fulfillment, with far more satisfying results for their patients. Learning to practice laser-assisted dentistry opens up exciting new horizons of personal growth and development, and we dedicate significant resources to laser education and training.

**BIOBASE UNIVERSITY**

BIOBASE University is dedicated to helping you acquire the case selection skills, treatment protocols and judgment necessary to confidently perform laser-assisted dentistry on your patients. Its faculty includes highly trained, experienced GPs and specialists who are committed to sharing their knowledge and techniques to help you smoothly incorporate laser-assisted dentistry into your practice. Tuition for basic laser certification through BIOBASE University is included with the purchase of every Waterlase MD™.

**THE WORLD CLINICAL LASER INSTITUTE**

The WCLI was founded in 2000 to provide a forum for dentists and researchers to share their knowledge and experience. Its four arms – Clinical, Publishing & Presenting, Regulatory & Safety, and Research & Innovation – continue to advance laser dentistry. WCLI symposiums, held annually throughout the world, provide you with comprehensive continuing education and certification in laser dentistry. With over 4,000 members in more than 40 countries, the WCLI is the world’s largest laser dental organization.

**BIOBASE TECHNOLOGY, INC.**

Celebrating over 20 years of transforming the dental experience, manufactures and markets lasers and related products focused on technologies for improved applications and procedures in dentistry and medicine. The Company’s products incorporate patented and patent pending technologies focused on reducing pain and improving clinical results. The leading dental laser company in the US and worldwide, BIOBASE holds more than 100 patents for a wide variety of laser and related technologies. We have clearance from the Food and Drug Administration to market our laser systems in the US, and approvals to sell laser systems in Canada, the European Union and other international markets.

**AWARD WINNING DESIGN**

The Waterlase MD™ has been recognized for excellence in industrial design, ergonomics and user features by top awards organizations.