With the Biolux OsseoPulse™ treatment I had virtually zero pain after the extensive extraction, implant and grafting procedure... I didn't need to take any pain relievers after the second day... a great experience.

The penetrating warmth and sense of well being that followed every session with the Biolux leaves me convinced of the role it played in the accelerated healing I enjoyed with its use.

- Ira Schecter DDS, Toronto, Ontario, Canada

"I have been utilizing the Biolux photobiomodulation therapy for the past three years and have documented close to 100 patients. For any case where there has been minimal stability of the dental implant at time of placement, utilizing the OsseoPulse has almost guaranteed the integration of the dental implant and within a much shortened healing time. Patients, in turn, have reported a more favorable post-surgical healing response with the device. Dentists who are involved with dental implants should be looking for every possible way to aid the natural healing process and ensure long term success of the treatment. The OsseoPulse by Biolux will provide that."

via Schecter DDS, Toronto, Ontario, Canada

"Faster healing of socket grafts with less pain, faster integration of dental implants, better treatment and service to my patients. Treating my patients with the OsseoPulse™ is now the standard of care in my practice."

Dr. Brian Laid, Kitchener, Ontario, Canada

Clinical Benefits
- Shorter treatment times
- Earlier loading
- Minimize early failures due to loss of stability
- Directly accelerate regenerative process of bone
- Treat single or multiple sites with use of additional treatment array

Practice Management Benefits
- Increase your productivity
- Differentiate your implant practice
- Shorter treatment times can lead to increased case acceptance
- Compatible with your existing implant and grafting systems

OsseoPulse™ Bone Regeneration System is a clinically proven light treatment that speeds up the post-surgical healing process.

- OsseoPulse™ uses light to stimulate tissues to heal at the cellular level. It’s non-invasive and easy to use.
- With OsseoPulse™ you can get back to your normal activities much sooner. Patients have reported that post-surgical discomfort is markedly reduced.
- Its very lightweight, hand-free design is simple to use and is operated automatically.
- Easily works with a pair of gloves. Produces a warm, pleasant sensation.
- OsseoPulse™ was designed for daily home treatments lasting only 20 minutes. During your treatment you can read or continue to watch your favorite TV program.

"OsseoPulse™ is now the standard of care in my practice. Treating my patients with the OsseoPulse™ is now the standard of care in my practice."

- Sorin Boeriu DDS, Kitchener, Ontario, Canada

For more information about OsseoPulse™, please visit our website www.bioluxresearch.com

Canadian Medical Device Licence Information:
Licence Number: IN771
Device Name: OsseoPulse System
(Clinically Proven Light Treatment for Accelerated Post-Surgical Healing)
Device Class: Class IIa
Components for this licence:
- Controller Device ID 531614
- Headset Assembly Device ID 531615
- Power Supply Device ID 531616

Distributed by:
Biolux Research Ltd
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Vancouver, BC, Canada, V6A 1H7

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bioluxresearch.com

red dot design award
honorary mention 2010

FM 542554
Biolux’s proven light treatment technology harnesses and accelerates the natural regenerative ability of osteoblasts and other cells involved in osseointegration.

- The treatment, following either of two clinically proven protocols, virtually eliminates implant instability in the early weeks after placement.

- A daily 21-day treatment, completed by the patient at home, demonstrates a decrease in time to load by an average of 58%.

- One pre-operative, in-office treatment and a daily 20-minute treatment completed by the patient at home reports no loss of implant stability.

**OsseoPulse** treatment delivers energy directly to the wound and osteotomy to accelerate early wound healing and bone regeneration

- Cellular studies have shown that **OsseoPulse** treatment increases fibroblast and osteoblast proliferation compared to controls.

- **OsseoPulse** technology targets energetic photons to the traumatized and ischemic surgical site which is converted to chemical energy (ATP) in the mitochondria.

**Mitochondrial Mechanism of Action**

1. Energy contained in **OsseoPulse** light is quickly used to increase ATP energy
2. Increased ATP energy can be used for healing and bone regeneration
3. This increased ATP energy can be quickly used
4. This increased ATP energy can be quickly used
5. How **Biolux Technology Works**

- **Proven Clinical Results**

**Accelerated Implant Stability After LED Photobiomodulation**

- 35 patients had 63 dental implants placed in either the maxilla or mandible. 23 patients had an **OsseoPulse** LED device Biolux Research Ltd., Canada, positioned over the surgical site and utilized on a daily basis of 20 min/cm² for 20 min at a wavelength of 630 mm±21 day.

- All implants were treated for primary stability with an Osstell Mentor RFA device (Osstell AB, Sweden) at the time of implant placement and at 14, 30, and 60 days. Patients treated with the LED device demonstrated significantly (p<0.05) improved implant stability at day 14, 30, and 60.

- **OsseoPulse** eliminates post-operative loss of implant stability most implants experience

**Proven Clinical Results**

- 12 patients received 76 dental implants by a single operator. The treatment group (n=20) applied LED delivered by **OsseoPulse** device preoperative for 20 minutes on the day of surgery, and for additional 10 daily sessions of 20 minutes each postoperatively starting the day of surgery.

- There was a continuous decrease in ISQ value in the control group over the first 4 weeks following implant placement. This was followed by an increase of 9% post-operatively. This ISQ decrease was not seen in the treatment group.

<table>
<thead>
<tr>
<th>ISQ = Implant Stability Quotient</th>
<th>Percentile Change</th>
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<tbody>
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- **Maxillary**
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**Accelerated Implant Stability After LED Photobiomodulation**


**Effects of light emitting diode (LED) on the healing of endosseous intr Intracellular Calcium 


**How **Biolux** Technology Works**


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