Photobiomodulation and Pain Management
The ideal solution for wound healing and pain reduction

- Highly effective pain reduction
- Improved healing
- Non-invasive
- Fast and simple
- Patient and practitioner friendly
Benefits of Photobiomodulation Therapy (PBM)

PBM utilises low-level visible to near-infrared light energy, which stimulates cells to naturally heal, relieve pain and reduce inflammation. The process creates three key mechanisms of action:

1. PBM energy is absorbed by cytochrome c oxidase in mitochondria in the cell and results in an increase in ATP, a natural fuel for cell activity and metabolism.

2. The process creates mild oxidants (ROS), which leads to gene transcription and cellular repair and healing.

3. PBM therapy helps to dilate blood vessels and improves blood circulation through the action of the signaling molecule Nitric Oxide.

Effects

- Anti-inflammatory effect
- Pain relieving effect
- Accelerated tissue regeneration
- Stimulation of micro-circulation
- Increased lymphatic flow
- Stimulation of cell metabolism
- Accelerated wound healing
- Analgesic effect
- Increased energy

Before treatment / day 0
During PBM therapy / Day 8
After complete treatment
PBM therapy with Fotona’s latest MarcCo™ handpieces can be used for a wide variety of conditions:

- Tinnitus
- Lower back pain
- Wound healing (skin or mucosa)
- Arthritis
- Carpal tunnel syndrome
- Dentistry, pain
- Oral mucositis
- Increase speed of orthodontic movement
- Shoulder pain
- Post-radiation mastitis
- Fibromyalgia
- Herpes zoster
- Alveolar osteitis
- Mucous membrane pemphigoid
- Wound healing (skin or mucosa)
- Bone healing
- Hemophilic ankle arthropathy

**Bacterial Cellulitis Treatment**

**Before treatment**  
**After treatment / 5 days**

**Treatment of facial nerve palsy due to Herpes Zoster infection**

**Before treatment**  
**After treatment / 18 days**  
**Before treatment**  
**After treatment / 20 weeks**
Available in three sizes:
MarcCo™ L, MarcCo™ M, MarcCo™ S

MarcCo™ handpieces can be used with the following Fotona laser systems:
Dentistry
LightWalker®, SkyPulse®
Aesthetics and Gynecology
SP Dynamis®, TimeWalker Fotona4D®, TimeWalker IntimaLaser®

The Latest Line of Handpieces for Photobiomodulation and Pain Management

- Enables fast, non-invasive and effective treatment
- A unique, collimated & homogenous beam profile
- Sterilizable spacers for increased safety
- Modern ergonomic design

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To learn more about MarcCo®
and what it can do for your practice contact us at info@fotona.com today.

References:

For related patents see: www.fotona.com/patents