



*"The use of low levels of visible or near infrared light for reducing pain, inflammation and edema, promoting healing of wounds, deeper tissues and nerves, and preventing cell death and tissue damage has been known for over forty years"*

**Prof. Michael Hamblin, Harvard-MIT Division of Health Sciences and Technology**

*"I use photobiomodulation therapy immediately on acute injuries, it is a very useful adjunct to have at major sporting games, treating acute and chronic injuries alongside manual therapy for pain relief and reduction of inflammation."*

**Sarah Cooper BSc (Hons), Physiotherapist to the British Olympic Athletic Team.**

*"I use photobiomodulation therapy where manipulation is contraindicated and where pain relief is required."*

**Julian M. Winer Bsc(Ost) DO**

## **THOR LASER - DRUG FREE PAIN RELIEF AND HEALING**

### **PHOTOBIMODULATION (PBM) THERAPY OR NSAIDS**

NSAIDs slow healing and often have side effects whereas PBM actually improves healing, as well as reducing inflammation and pain.

### **PBM IS SAFER AND MORE EFFECTIVE**

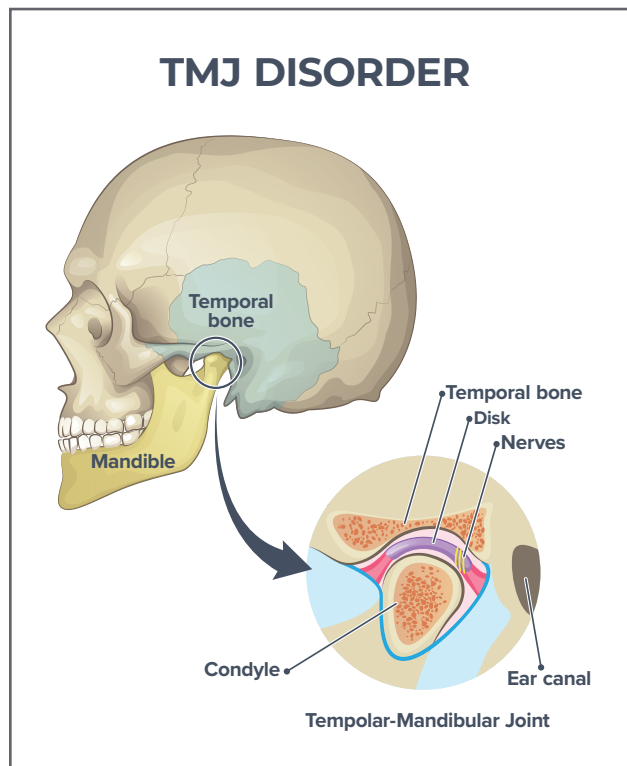
Over 700 PBM clinical trials ( RCTs) and over 7,000 laboratory studies have been published. It has proven more effective and safer than pharmaceutical anti-inflammatories across a range of musculoskeletal conditions. PBM also improves healing and reduces muscle fatigue, muscle damage and DOMS. Read our blog for the latest news [blog.thorlaser.com](http://blog.thorlaser.com)



## **PBM PAIN RELIEF AND HEALING WITH NO SIDE EFFECTS**



### **PHOTOBIMODULATION (PBM)**



## THOR PHOTOBIMODULATION THERAPY SYSTEM

### CLINICAL APPLICATIONS:

- » TMJ Dysfunction
- » Aphthous Ulcers
- » Burning Mouth Syndrome
- » Xerostomia
- » Hyposalivation
- » Trigeminal Neuralgia
- » Osteonecrosis
- » Post extraction pain
- » Paresthesia
- » Trismus
- » Herpes Simplex
- » Dentine Hypersensitivity
- » Oral mucositis
- » Lichen Planus

### TREATMENT

Photobiomodulation Therapy improves tissue repair, reduces pain and inflammation wherever the beam is applied. Treatments take only a few minutes and can be applied two or more times a week.

### RESULTS

Significant reduction of inflammation equal to or better than NSAIDs within 2 hours, analgesic effects that last for 48 hours, healing time of chronic tendinopathies reduced by 70%. Read our blog for the most up-to-date news [blog.thorlaser.com](http://blog.thorlaser.com)

## AN EXCELLENT ALTERNATIVE TO NSAIDS

### HOW IT WORKS

When cells are stressed, nitric oxide (NO) inhibits oxygen consumption by mitochondrial cytochrome c oxidase. This reduces production of ATP and causes oxidative stress leading to increased inflammation and reduced production of ATP.

PBM displaces NO from cytochrome c oxidase thereby reducing inflammation and restoring ATP production, helping tissues heal more quickly.

### THOR PHOTOMEDICINE

With over 5,000 customers using THOR lasers in 70 countries including Harvard Medical School, NASA researchers, US Navy, RAF, British Army, Royal Navy, NHS, BUPA, premier division football teams, British Lions Rugby, THOR can rightly claim to be the number one supplier in the world of PBM technology and training.