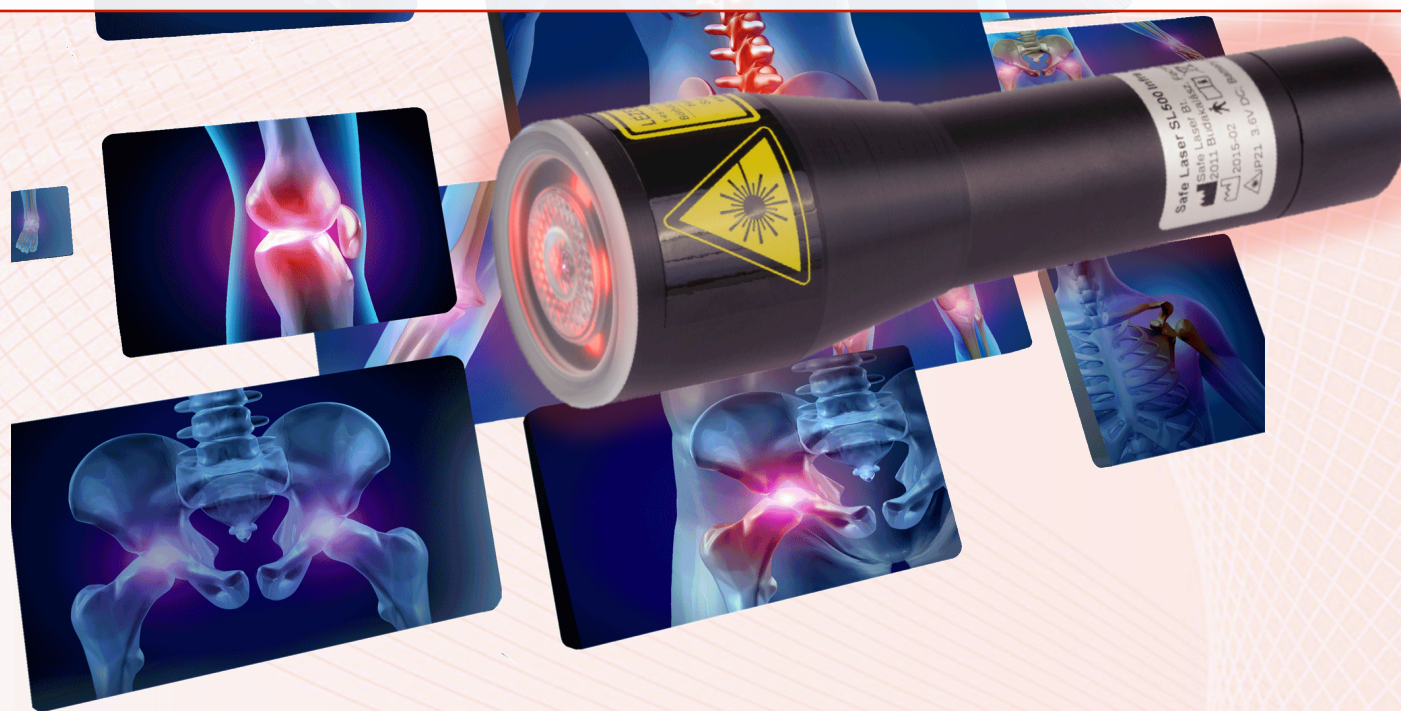




Safe Laser® – Medical Soft Lasers

- **What Problems and Diseases Can Be Treated?**
- **Advantages for Doctors, Dentists & Therapists**
- **Scientific Background & References**
- **Why is Safe Laser® Safe for the Eyes?**



Made in EU



Treatable Problems

Ear complaints

- inflammation, pain, varicose vein
- tinnitus

Dental problems

- toothache, inflammation
- atrophy and bleeding gums
- oral mucosal injury

Cosmetics

- akne, pimple
- crease, pigment spots...

Sports injuries

- muscle strain
- contusion
- hematoma

Diabetes

- heals ulcerated wounds

Allergy, Asthma, Hay fever, Respiratory inflammation

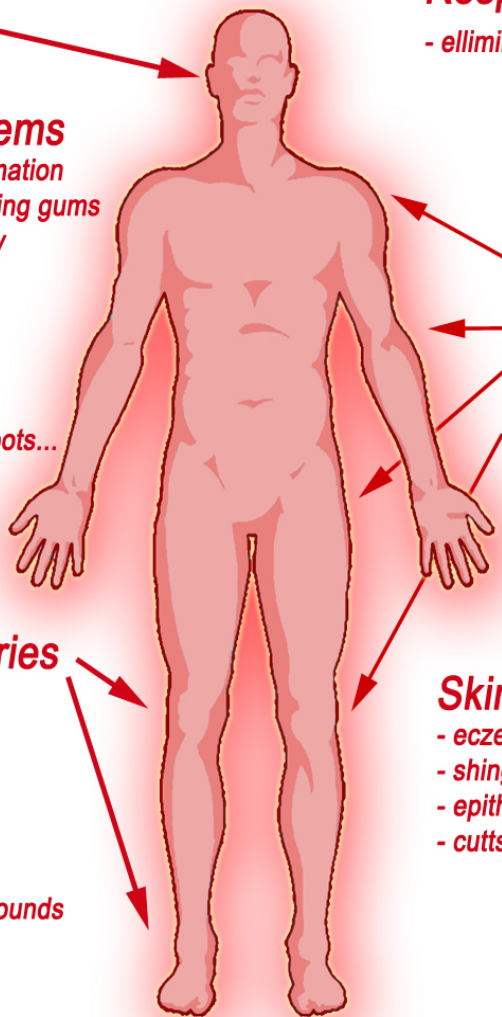
- eliminates or heals symptoms

Musculoskeletal symptoms

- Meniscus lesion- ,
- ligament and joint capsule injury,
- joint swelling,
- pain and inflammation,
- rheumatic pain and inflammation,
- hematoma,
- post-operative swelling and arthritis,
- bone fractures....

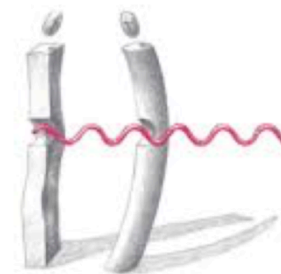
Skin problems

- eczema, dermatitis
- shingles, herpes
- epithelial injury, bruises
- cuts, flash burn, frostbite injury...



Laser Phototherapy Clinical Practice and Scientific Background

Lars Høde / Jan Tunér



- ✓ 50 years medical background
- ✓ 1.000+ studies
- ✓ 2.000+ patients monthly





Advantages of Safe Laser® Devices:

- **Clinically proven** efficiency
- **Harmless** to the eyes
- **Comfortable:** The laser therapy is feasible not only in clinics but also in your own home; you can use it any time and anywhere you go
- **Short treatment time:** a surface treatment time is only 3-5 minutes
- Applying is **painless**
- **Non-invasive** treatment
- **Non-contact** treatment is possible: eg. at infected wounds, painful surfaces
- **No known adverse side effects**
- **Shortens recovery time**
- **Can be combined with any other therapy**



Advantages for Doctors, Dentists, etc.

Doctors, Dermatologists and Dentists, also Beauty-, Sport- and Massage Therapists can benefit two ways:

1. They can **provide patients an astonishingly broad range of treatments** with Safe Lasers® (see below).
2. In many cases the official medical treatment protocols require **DAILY treatments for 60-90 days** and the treated patients experience that Safe Lasers® are very effective and easy to use, so after certain number of treatments **many patients wish to purchase Safe Lasers® from their Doctor or Healthcare Professional**, a perfect win-win situation: **Doctors and Healthcare Professionals can make substantial margins selling Safe Laser® devices** and can use their time for treating new patients (generating further sales), while patients purchasing Safe Lasers® can save money and time, also can use the lasers for other problematic body parts and/or for other family members.

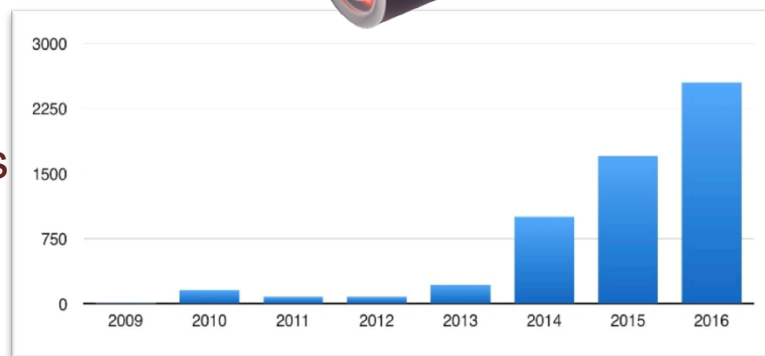




Overview, Background Info



- Manufacturing laser devices since 2008
- More than 5.000 pcs sold in the last three years
- EU Certified Medical Devices (Directive 93/42/EEC)



The Head of Our R&D Team:

Dr. Karoly Rozsa - Doctor of Hungarian Academy of Sciences, laser physicist

- 54 years background in Laser Research & Development
- Several patents related to optics, lasers and light therapy
- Performed the First Successful Healing with Polarized Light!
- Current researches: glaucoma, AMD, Alzheimer, stroke...



Safe Laser® is a Trademarked Brand with one registered + three pending patents. We are conducting four studies & prepared three new studies.





The History of Soft Laser Therapy

- 1966 – Prof. Dr. Endre Mester – BIOSTIMULATION (Photobiomodulation)



**“Soft Laser Light” has a
“Stimulating” effect on
biological systems.**

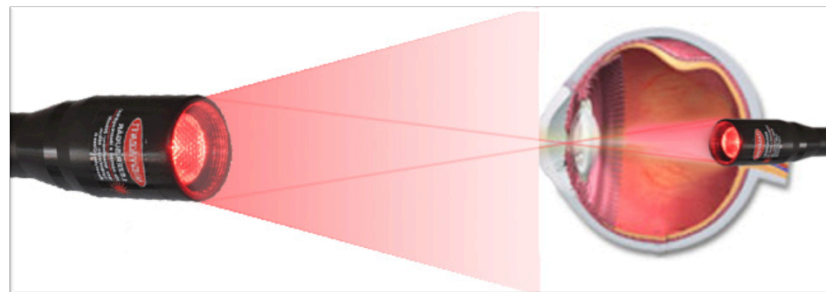
(Stimulates cells to generate more energy
and undergo self-repair)



- 2012 – Dr. Karoly Rozsa, Head of our R&D – Safe
Laser technology

**First high-power (150 - 500 mW) lasers
that are Safe for the Eyes!**

They can be used in both **clinical** and
home rehabilitation.





Safe Laser® – Clinical References

- **University of Veterinary Medicine – Vienna, Austria**
- **State Medical Centre** - Central Hospital of the Hungarian Homeland Defense Forces (**Physiotherapy, Rehabilitation**)
- **National Rheumatology and Physiotherapy Institute (ORFI) – Radiology**
- **Sándor Péterffy Hospital and Casualty Centre – Casualty rehabilitation**
- **Semmelweis University, Optometric Clinic**
- **Semmelweis University, Dentistry, Parodontology Clinic**
- **Central Medical Unit of the Hungarian Police**
- **Bethesda Children's Hospital – Rehabilitation Unit**
- **Children's Hospital of Buda Rehabilitation Unit**
- **Saint John Hospital – Traumatology Unit**
- **Uzsoki Hospital - Central Intensive Unit**
- **Jávorszky Ödön Hospital Vác – Ear- Nose- Throat Unit**
- **Hospitaller Order's Hospital – Budai Orthopedic Unit**
- **GMC International Medical Training Centre... etc.**





Safe Laser® - Clinical References II.

Prof. Dr. Sandor Sandra med.habil. Ph.D

Medical Centre, Hungarian Defense Forces, Department of Physiotherapy



“We have been using Safe Laser devices in the Medical Centre of the Hungarian Defense Forces for two years. We have carried out an extensive study examining the effectiveness of the therapy, including hundreds of patients during this period. We achieved results in the cases of the following symptoms and conditions during treatments:

- arthritis – chronic inflammation in joints
- rheumatoid arthritis – inflammation and pain
- arthrosis
- spondylarthrosis, lumboischialgy, slipped disc
- tenosynovitis
- epicondylitis humeri lateralis et medialis
- Carpal- tunnel syndrome
- de Quervain-syndrome
- tendinitis
- exostosis calcanei
- haematoma in muscle or joint
- contusio, distorsio”



Safe Laser® - Clinical References III.



Prof. Dr. Sandor Sandra med.habil. Ph.D

Medical Centre, Hungarian Defense Forces, Department of Physiotherapy

“My opinion: In case of the treatment of **acute and chronic musculoskeletal complaints**, the pain of the treated person has been **decreased to such an extent that the rate of medication could be reduced**, in many cases **even omitted**. The rehabilitation and healing period **shortened significantly**.

My Summary of the survey results: The use of **Safe Laser** is simple, qualifications, **safety measures are not required**, but it is necessary to carry out an instruction course and to comply with the indications and contraindications.

In case of **acute illness usually 1-3 treatments are sufficient to achieve a positive outcome**, so the illness does not become a long and costly chronic condition to be treated. **Patients bear the treatment well**, because they feel **no particular side effect**, which is especially important for children.

Treatment duration is short, usually 5-20 minutes.

It is a good supplement to any other physical therapy and it can be given as mono- and combination treatment. **Effective for pain, shortens the healing time.**

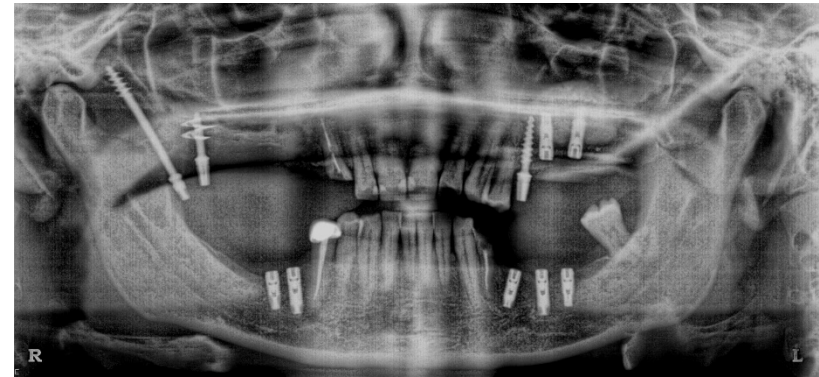
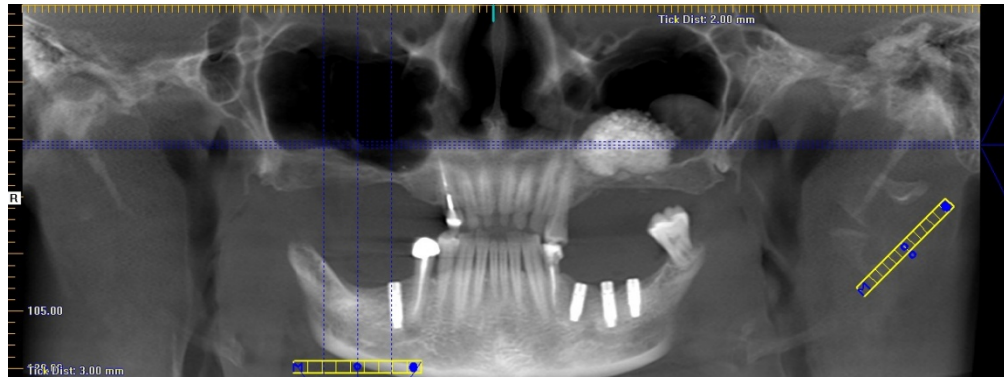
It reduces the need for drugs, so these possible side effects are reduced too.”



Dental and Mouth Diseases



- Toothaches, inflammations
- Atrophy and bleeding gums
- Herpes, mouth wounds, ulcers, sores
- Lock-jaw (trismus)
- Recovery of soft and bone tissues is accelerated after dental treatments, mouth surgery, implantation.



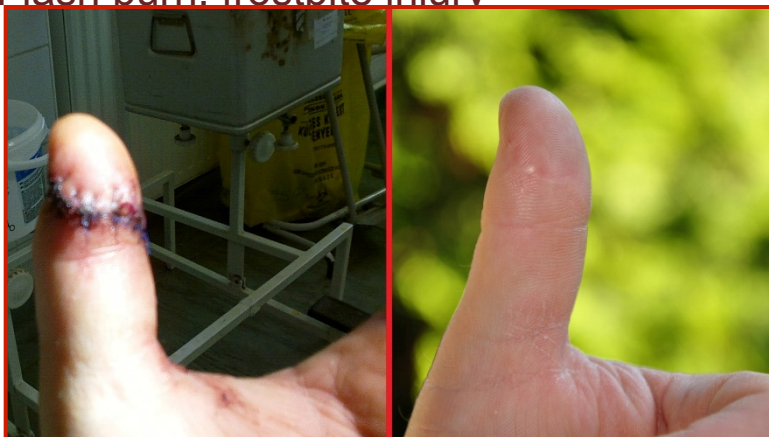
It improves the sticking of the epithelium (osseointegration) around dental implantation even by enlightening through cheek.



Skin Problems

- **Skin problems (SL150 and 500 Infra...)**

- Eczema, dermatitis, atopic dermatitis, household injuries: cuts, bruises, swellings, burns.
- Postoperative scars, leg ulcers (eg. diabetic patients)
- Flash burn, frostbite injury



Injury

**Cracked
stiches**

5 weeks

5 month treatment with SL500 Infra



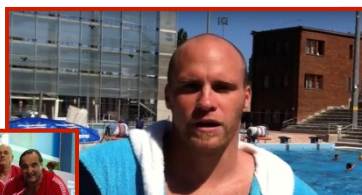
Musculoskeletal Problems

- Strain: muscle and tendon injuries, inflammation, sprain, contusion...
- Degenerative symptoms: arthrosis (cox, knee), spine diseases...
- Injuries (sport): muscle strain, contusion, hematoma, fractures...

References: - BVB Borussia Dortmund Handball Team

- Hungarian Swimming Federation (three gold medals in Rio'16)

- Dr. Gergely Kiss, three-times Olympic Champion, Water-polo





Musculoskeletal Reference



Dr. Gergely Kiss, LLM, three-times Olympic Champion, World Champion, Water-polo:

“During my 30 years career, I participated in seven World Championships, four Olympic Games, tens of thousands of practices and thousands of matches and **I suffered several cartilage detachments in my shoulders and knees, also several minor inflammations and strains.**

There are several healing methods and excellent specialists who help our career, but a recently tested device, **Safe Laser 500 Infrared has brought me the most noticeable improvement** in terms of my shoulder problems.

It was easy to use and **after 20-25 treatments with Safe Laser the pain which inhibited my movement was gone, in spite of my exhausting daily routine I was able to train without complaints and did not have any problems during the matches** either. **The stabbing pain** which caused bitterness in my every day life and **severly reduced my movement scope thus belongs to the past**, in terms of my health I optimalistically look forward to my 25th first class season.

I am sure that for every sportsman who has encountered barriers to effective training and has experienced acute or chronic knee, back, elbow, wrist and shoulder injuries Safe Laser is an effective solution!”





The Mechanism of Laser Therapy

Laser Light, Photon Energy

Diffuse distribution in tissue: interference, speckle formation

Increased Microcirculation

Creates areas of partially polarized light

Absorption of polarized light in cytochrome molecules (e.g. porphyrines) stimulates the creation of singlet oxygen

Causes areas of higher density to appear

Higher density is linked to higher probability of multi-photon effects. The electrical field across the cell membrane creates a dipole moment on the bar shaped lipids.

Creates local areas of high intensity of microcirculation

Local differences in intensity or microcirculation create temperature and pressure gradients across cell membranes.

Increase of ATP-ase and activation of eAMP enzymes

Influences the permeability of cell membranes, which affects Ca^{2+} , Na^{2+} and K^{+} as well as proton gradient over the mitochondria membranes

Triggers immunological chain reaction

Increase of blood serotonin

Increased cell membrane receptor activity

Decreased bradykinine synthesis

Increase of procollagen synthesis in fibroblasts

Increases number of mast cells

Increased endorphin synthesis

Decreased C-fiber activity

Increase of endothelial cells and keratinocytes

Activation of macrophages

Increase of SRF

Increase of SOD levels

Increased nerve cell action potential

Wound Healing

Acceleration of the inflammatory process

Pain Influence

“Laser Therapy, Clinical Practice and Scientific Background”
Jan Tuner & Lars Hode, Pg. 362.

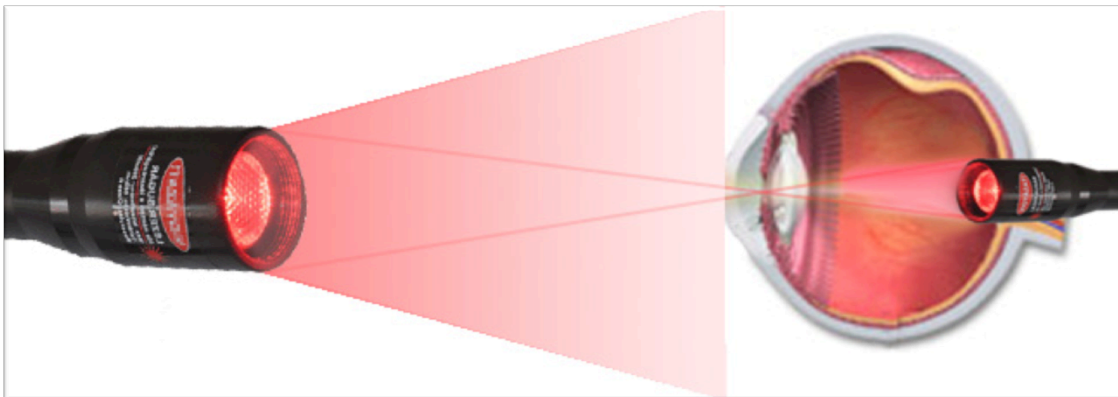
- Increase of ATP-ase production
- Immunological chain reaction
- Activation of Macrophages
- Improved permeability of cell membranes
- Increase of endothelial cells
- Increase of serotonin and endorphin levels

Safe Laser® Technology – Safe for the Eye

- **Conventional lasers radiate a parallel laser beam** and the eyes can **focus it into an extremely bright dot**, producing a very high power density, which can harm the eyes.



- Safe Laser devices have a new, **special laser light source** (optical arrangement) which emits polarized, coherent and monochromatic light (like other lasers), but it does not have a parallel beam. The laser light, coming from a large scattering surface can not be focused **into a bright dot and won't make a hazardous power density**.





Safe Laser® Technology – Safe for the Eye

Safe Laser® 500 Infra

- NO NEED for Eye Protection
- 500 mW
- 808 nm Infrared
- Safety: Class 1



Safe Laser® 150

- NO NEED for Eye Protection
- 150 mW
- 660 nm Red
- Safety: Class 2





Contraindications

- In case of pregnancy irradiation of abdomen is forbidden because of (dangerous) increase of congestion!
- Usage of the instrument is forbidden in case of persons suffering of grave blood coagulation problems as well!
- Do not enlighten: **tumor areas**,
thyroid (in case of super-activity) and breast area,
fungus infected skin surfaces!
- Direct irradiation of colored moles may be dangerous, because it qualifies as status prior to cancer.
- To enlighten into the nostril with Safe Laser® 500 Infra is forbidden (without nasal accessory)!
- **Never treat yourself without precise medical diagnosis by a doctor**, because the Safe Laser® 500 Infra can decrease pain, but not always capable of eliminating the cause of the problem and may hide serious diseases temporarily!





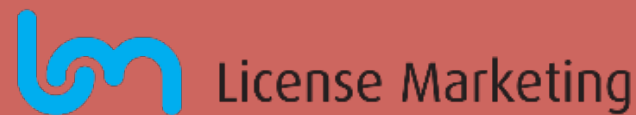
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Don't be afraid,
You may enter safe.
We treat here with
Safe Laser®