

**LIVING A PAIN FREE, HEALTHY LIFE  
WITH OPTIKOP SOFT LASERS**



**OUR HEALTH IS OUR FUTURE!**

## Benefits for all

### Benefits of soft laser therapy for patients

- Painless
- No side effects, because normally functioning cells are not stimulated, only decreased functions are enhanced
- Non allergenic
- No tissue damage
- Can be used for patients with pacemakers and implants
- Mobile, treatment can be performed at the hospital, outpatient clinics or at home
- Biostimulating effect initiates self-healing
- Decreases medication and the number of days on sickness benefit
- **Relatively quick results, healing can be achieved twice as quickly with laser therapy**

### Benefits for owners:

- One time investment, quick return (about 4 to 14 months, depending on the chosen model)
- No further maintenance costs
- More efficient treatment → patients will return and recommend the treatment, „word of mouth“ marketing
- Added value service = competitive advantage over other market players
- Quicker healing → more patients can be treated within the same time frame → more profitable operation

## Why are Optikop lasers a good choice for users?

### Advantages of Optikop lasers for users:

- European manufacturer
- Over 30 years of experience in development and manufacturing
- Development based on medical expertise 5000+ lasers sold
- Quick, European manufacturer's repair service
- Manufacturing technology accredited according to ISO 13485
- All products are CE certified (93/42/EEC)
- **Swiss quality, German reliability, Hungarian prices**

### Optikop laser advantages for trading partners:

- Fair prices
- Reliable service
- Flexibility
- Long term partnership



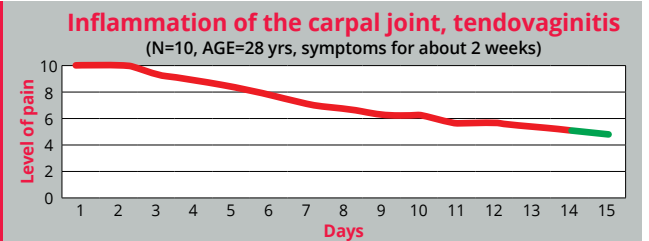
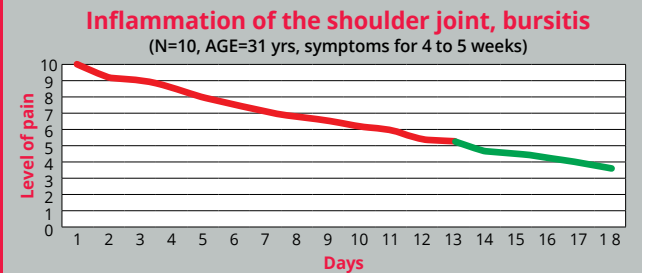
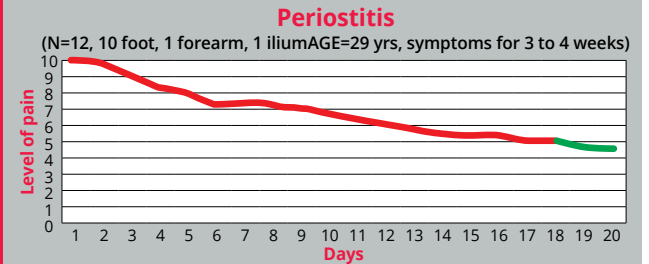
## Our own studies

### Observing the process of healing

10-9-8-7-6-5-4-3-2-1

10: starting point

5: light sports activity is possible



**Subjective feeling of pain started to decrease after initiating softlaser therapy.**

### The benefits of soft laser therapy:

- concentrated effect
- has no side effects
- accelerated recovery
- simple, cheap, fast handling procedure
- portable
- Wide range of indications

## How soft laser therapy works

### The efficacy of soft laser therapy has been proven by more than 50 years of scientific research

The beneficial effects of light have been known since ancient times, a Hungarian professor, Dr. Endre Mester was the first to scientifically study its use in human medicine in 1967. Medical laser therapy has been extensively studied since then with many scientific papers published. Its efficacy is based on the reaction of tissues to laser light/low level irradiation:

#### The effect of specific wavelength photons on tissues:

##### Primary effects

- biochemical (basic)-,
- bioelectrical-,
- bioenergetic cell processes

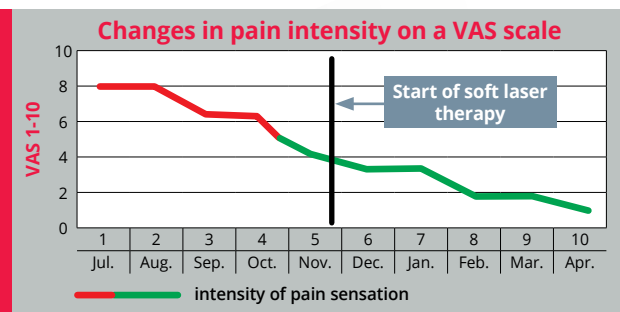
##### Biological effects

- improvement of microcirculation
- improvement of cell metabolism
- stimulation of cell proliferation
- stimulation of cell regeneration
- stimulation of revascularisation
- enhancement of transport processes through cell membranes

##### Clinical effects

- pain relief
- anti-inflammatory effect, reduction of oedema, improvement of circulation
- promoting tissue regeneration
- acceleration of wound healing
- reduction of muscular tension
- supporting the regeneration of nerve cells
- biostimulation (e.g. immune system, photodynamic therapy)
- Special cosmetic effects

#### Clinical effects contribute to a faster healing process



Subjective feeling of pain started to decrease after initiating soft laser therapy

Source: case study, Dóra Kiss, manual therapist, physiotherapist

## MEDLASER FAMILY LTD.

### Professional medical diode lasers since 1989



**Júlia Bojtos and Ervin Tanos**  
The founders of MedLaser Family Ltd.

MedLaser Family Ltd. is a Hungarian company specializing in the development and production of medical diode lasers. We provide professional support for our devices. In addition, we offer ODM service.

Our devices, the OPTIPKOP lasers, have been known and recognized for more than 30 years on the domestic market and for over 20 years on the European and Japanese markets.

Our flagship product, the TriCombi Laser, is a combined, 3-in-1 surgical and tabletop soft laser treatment system suitable for all laser procedures required in a dental practice. Originally developed for use in dentistry, it also offers a number of advantages in veterinary medicine, such as: B. bleeding-free cuts, faster healing, fewer complications and less pain.

Our strengths include quality-oriented production (CE certification, ISO: 13485:2016), flexible product development and quickly available manufacturer repair service in Europe.

We are convinced that the use of diode lasers and laser therapies cannot be successful without appropriate training and knowledge. To support our clients, we also provide medical university accredited training for doctors and dentists as well as for dental hygienists and health professionals.

We are proud of our past achievements and the position of Optikop lasers in the market. While maintaining our values, we are working to ensure that the positive medical results of soft lasers and medical diode lasers are noticed and used by as many people as possible, and that Optikop lasers are recognized on the international market.

# OPTIKOP LASERS IN MEDICAL CARE

**MEDLASER – use of medication can be decreased significantly by using soft laser therapy**

- Improves tissue healing
- Less scar tissue, quicker regeneration
- Pain relief – provides local pain relief
- Increases tissue metabolism
- Decreases tissue oedema
- Speeds up the resorption of haematomas



Soft laser therapy can be used to effectively treat skin wounds and lesions (accelerates wound healing, prevents Herpes lesions), as well as deeper structures e.g. rheumatoid arthritis, muscle pain, strains, contusions, tennis elbow.

Some patients experience reduction of pain or full relief of the pain directly after treatment, while others on the days after.

Healing time may be reduced by 50% (wounds, trauma, bone fractures)



**Outstanding natural therapy for children:**

- pharyngitis
- abdominal pain
- toothaches
- ear infections



*" We can even treat migraines. It is really saddening that we see migraines very frequently in 7-8 year-old children. These children shouldn't be medicated, I always recommend laser therapy." – dr. Gyöngyvér Karácsonyi, anesthesiologist and intensive care specialist, qualified acupuncture practitioner*

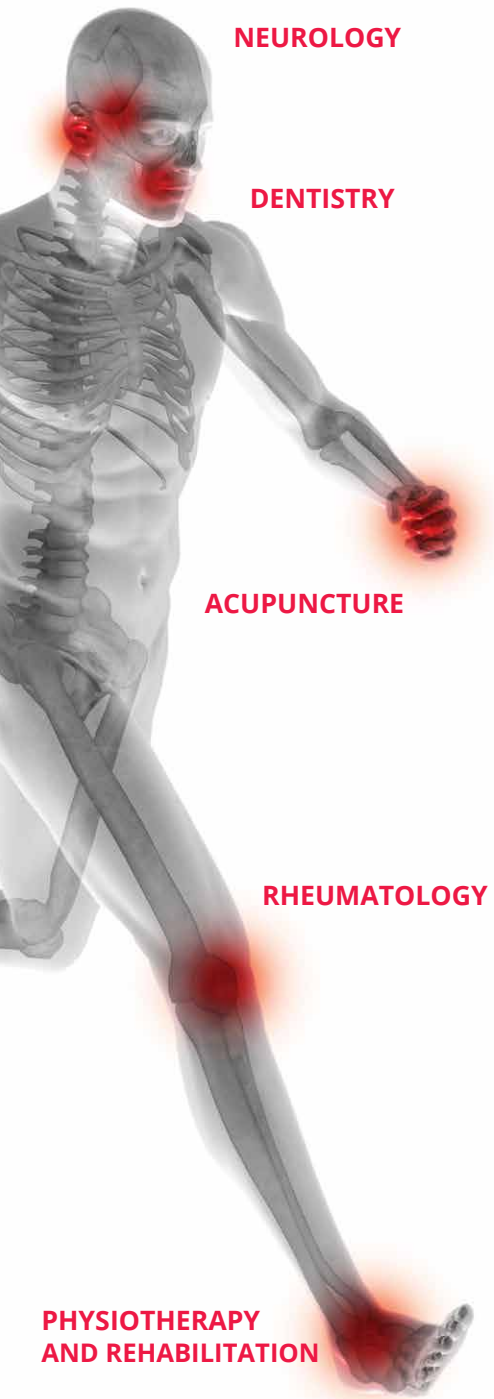
**OTORHINOLARYNGOLOGY**

**PAEDIATRICS**

**SPORT AND GENERAL MEDICINE**

**DERMATOLOGY**





NEUROLOGY

DENTISTRY

ACUPUNCTURE

RHEUMATOLOGY

PHYSIOTHERAPY AND REHABILITATION

# A FEW EXAMPLES

## Superficial lesions

Scar treatment



Burn wounds



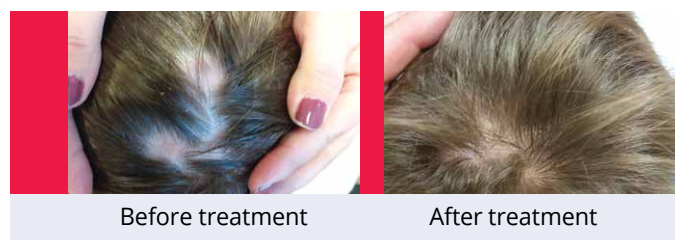
Herpes zoster



Herpes simplex



Alopecia areata



## Deeper structures

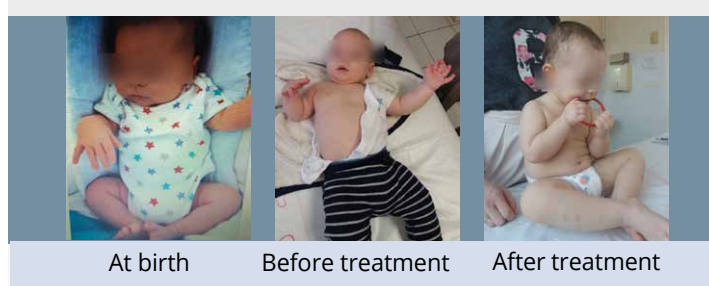
Motorcycle accident



Peripheral facial paresis



Paralysis of the forearm



# OPTIKOP SOFT LASER AND SURGICAL DIODE LASER IN DENTISTRY

## Pain syndromes

- Lower frequency and level of flare-ups

## Parodontal diseases

- Quick wound healing
- Decreases inflammation
- Bone regeneration

## Diseases of the temporomandibular joint

- Quick pain relief

## Diseases of the salivary glands

- Decreases pain
- Decreases burning feeling and other subjective sensations

## Dental inflammation

- Decreases/relieves pain and oedema
- Quicker healing
- Prevents scar tissue formation

## Diseases of the oral mucosa

- Quick epithelialisation
- Decreases inflammation

## Trauma

- Prevents inflammation
- Quicker bone regeneration
- Quicker healing

## Complications of tooth extraction, e.g.:

- Decreasing/relieving pain
- Quicker healing

## Complications associated with diseases of the oral cavity and oral surgery

- Significant reduction of postoperative pain and oedema
- Lower incidence and risk of complications
- Quick epithelialisation, sutures can be removed sooner

## Antimicrobial photodynamic therapy (aPDT)

The laser activates the photosensitiser, thus lowering bacterial counts



## TriCombi Laser

- Endodontics
- Parodontology
- Oral surgery
- Cariology
- Minimal-invasive surgery
- Tooth whitening

## Intervention without bleeding

- Lower coagulated volume
- Postoperative:
- Less pain
  - Less complications
  - Quicker healing



## A FEW EXAMPLES AND FEEDBACK FROM USERS



*„In order to be able to provide full-scale laser treatment to his patients, the dentist needs lasers with several wavelengths. A different wavelength is needed for teeth, a different one for joints, mucous membranes and surgical interventions. The fact that all of this can be found in one device makes it easy and significantly shortens the treatment time. Only combined lasers are suitable for busy dental offices and clinics.”*  
– Dr. Kutvölgyi Ida, dentist



*I use it for a few days before and after extracting a tooth. It is excellent for after-care, wound healing and pain relief. New braces often injure the mucosa. In these cases it takes only seconds to alleviate the pain in the affected area. When I have to file a number of teeth I treat them with the laser after filing, so no severe pain will occur after treatment.”* – Dr. Zsuzsanna Kiss, dentist



*“We had an adult patient, who's incisor was injured when the dog bumped into her. The teeth could be moved by hand. We started laser therapy and the teeth became more stable within 2-3 days. That was a spectacular case.”* – Dr. Judit Rajnai, dentist



Before soft laser therapy



After soft laser therapy



**optikop**  
dentlaser

## OPTIKOP BEAUTYLASER IN COSMETICS

### STRENGTH AND BEAUTY THE USE OF SOFT-LASERS IN COSMETOLOGY

Treatment of acne, eczema and rosacea

Increases the number of collagen fibers

Anti-wrinkle, skin regenerating properties

Pain relief and anti-inflammatory effect

Treatment of scars, quicker wound healing

Herpes simplex, Herpes zoster



### ADVANTAGES OF LASER THERAPY

Painless .....○

Instant, spectacular results .....○

Initiates the production of collagen .....○

Reduces scars .....○

Non-allergenic .....○

No side effects .....○

Can be performed without touching the patient .....○

#### Treatment of wrinkles

Laser therapy **decreases the depth of wrinkles**, Initiates the production of collagen and elastin, making **the skin more toned**, achieves a **face-lifting effect**.

#### Treatment of acne, blackheads and skin problems in adults and teenagers

Laser therapy decreases the size of pores, normalises sebum production and keratinisation, **inflammatory lesions heal without scarring**, decreases the appearance of blackheads.

#### Scarred skin

Soft lasers **are excellent for wound healing**, treatment successfully **decreases** acne or surgery **scars**.

#### Cosmetology treatments for men

To treat **acne in adolescence** and **wrinkles in older men**.



# THE USE OF OPTIKOP BEAUTYLASER IN COSMETOLOGY

## HORMONAL ACNE



Before the 1<sup>st</sup> treatment



After 12 treatments

## ACNE TREATMENT



Before the 1<sup>st</sup> treatment



After the 1<sup>st</sup> treatment

## ANTI-AGING TREATMENT



Before the 1<sup>st</sup> treatment



After the 1<sup>st</sup> treatment



**"It is inspiring to see results already during the treatment with soft laser."**

*"If a cosmetician has all the basic equipment and want to innovate, a soft laser is the perfect addition. It is easy to use, the customers like it and they bring spectacular results. Treatment is painless, it doesn't damage the tissues and it can be used as part of any cosmetic treatment."*  
- Erika Tábori master cosmetician, qualified trainer



**"Other treatments allow us to keep lesions at a certain level, but lasers will solve the problem."**

*"One of my first clients was a boy with severe acne, who I didn't even want to treat at first. Acne were deep and confluent, almost covering the lower part of his face. This is all gone now, thanks to soft laser treatment and the boy is very happy."*  
- Enikő Kovács, cosmetician



# OPTIKOP LASERS IN VETERINARY MEDICINE

JOINT AND MUSCLE TRAUMA, STRAINS

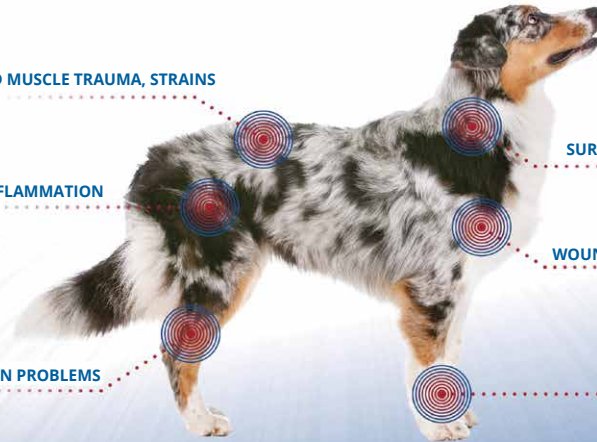
INFLAMMATION

TENDON PROBLEMS

SURGICAL INTERVENTIONS

WOUNDS, EXCORIATIONS

INFECTIONS



## Superficial lesions

### Superficial treatments:

- Wounds, excoriation, alopecia,
- Skin disorders
- Ear infections and otitis externa
- Inflammations in the oral cavity

Induces the production of collagen, induces epithelialisation, promotes hair growth and vascularisation, better microcirculation and oxygenation, antimicrobial effect



## Deep structures

### orthopedics:

- Treatment of osteoarthritis
- Tendinopathies
- Bone fractures

### neurology:

- Diseases of the intervertebral discs
- Peripheral nerve injury
- degenerative myelopathy
- Regeneration after surgery (e.g. discus hernia)

### pain:

- Treatment of ligaments, tendons
- Treatment of joints
- Diseases of the intervertebral discs
- Promoting regeneration of the nervous system
- Promoting healing processes in the case bone fractures
- Promoting reconvalescence after surgery

Anti-inflammatory properties, pain relief, less medication for pain



# A FEW EXAMPLES

Before treatment



*"Antibiotics are needed until the abscess can be drained. Once the abscess opens, it has to be flushed and disinfected, after that, laser therapy is used only. We didn't have to put a dressing on the wound. Since the lesion did not hurt or cause discomfort, and didn't hinder the cat in any of its daily activities, the cat was comfortable.*

*The first scab fell off within 2 days. Since there is no hair on the affected area, it's easy to see how the wound is contracting." - Dr. Béla Szabó veterinarian and Fanni Lukácsy veterinary physiotherapist*

After 7 days



March 18



April 4



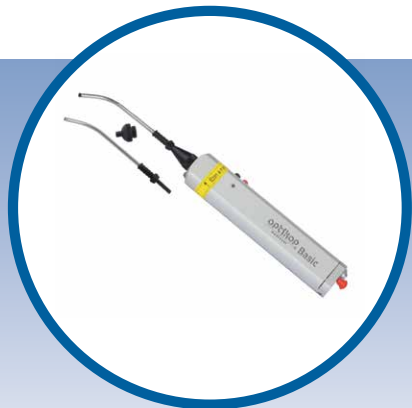
Before treatment



Day 51



End of treatment



**MEDICAL DIODE LASERS SINCE 1989**

---

**LIVING A PAIN FREE, HEALTHY LIFE  
WITH OPTIKOP SOFT LASERS**

**Medlaser | Dentlaser | Vetlaser | Beautylaser**

**Medlaser Family Ltd.**

**1117 Budapest, Budafoki út 183.  
HUNGARY  
info@med-laser.hu  
+36 70 679 8810  
+36 1 203 0001**



**WWW.MED-LASER.HU**