

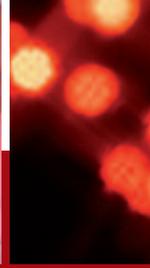


The New Medical Treatment for  
**Inflammation** and **Pain**

  
**repuls**<sup>®</sup>

*HF Red Light  
Radiation Lamp*

photos: © Agentur Sindelar



easy to use

for use on small and ...

large areas

# REPULS® is ...

a new, non-invasive, fast-acting treatment that **supports the healing of inflammatory processes** to bring **relief from pain**.

## The mechanism of action

... influences the **biochemical processes of inflammatory mediators** (12-Oxo-LTB4).

## Method

### - Frequency:

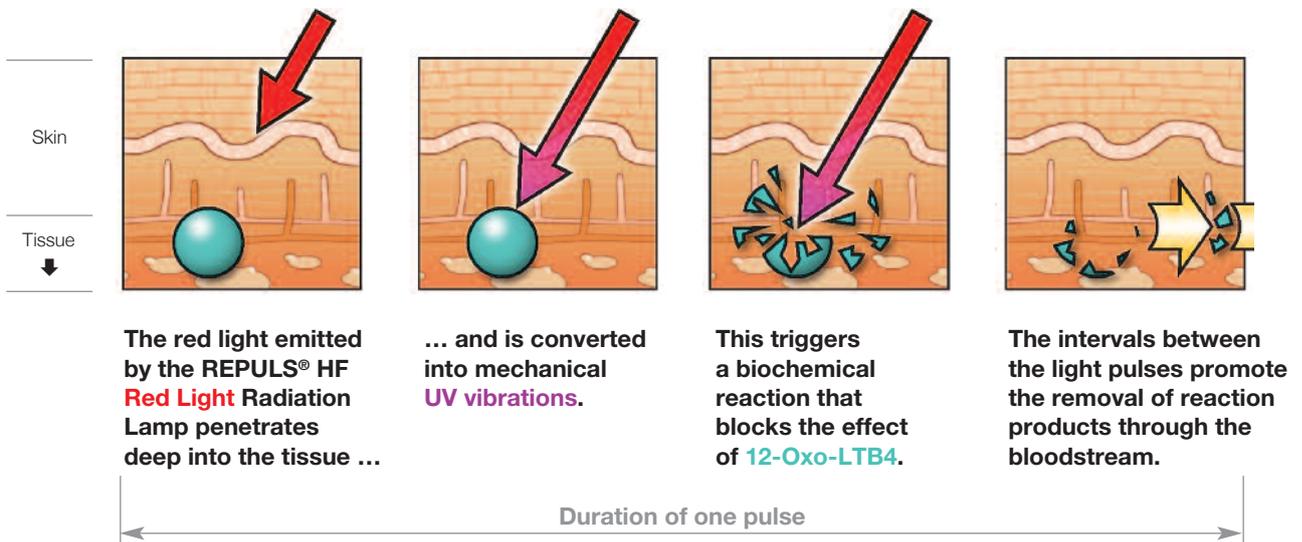
REPULS® generates intensive red light in the water window that penetrates deep into the tissue. This red light is gentle on tissue and therefore causes no discomfort or harmful effects. The required biochemical effect is achieved by means of electro-mechanical vibration of the mediators (organic molecules that control inflammation) in the UV frequency range ("frequency doubling"). This interferes with the effect of the mediators so that the inflammation subsides.

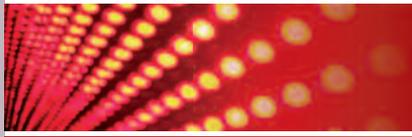
### - Pulsation:

The radiation rhythm of 2.5 light pulses per second (Hz) in combination with the pauses between the light pulses enables the body to remove the reaction products through the blood stream. This proven measure makes the treatment even more tissue-friendly.

### - Side Effects:

There are absolutely no side-effects whatsoever.





## REPULS® for use:

... on the neck

... on the shoulder

... on the elbow

... on the hip

... on the spine

... on the wrist

... on the knee

... on the calf

... on the ankle

... on the foot

REPULS® also

- accelerates post-operative rehabilitation
- supports mobilisation
- supports physiotherapy measures by alleviating pain



photos: © Agentur Sindelar

## REPULS® in action

REPULS® has already been used extremely successfully in **sports medicine, orthopaedics, trauma surgery** and at **rehabilitation centres**.

Within the scope of our application studies and observations patients with the following symptoms and injuries were treated with the REPULS® Red Light Radiation Lamp:

- Arthropathy
- Insertional tendinitis - Tendinopathy
- Tendinitis
- Peritendinitis
- Bursitis
- Muscle tension
- Cervical syndrome
- Cervical and brachial pain
- Dorsalgia
- Lumbalgia (lower back pain)
- Ischialgia
- Sprains
- Contusion
- Haematoma
- Periosteal irritation
- Capsule and ligament injuries
- Prolapsed disc

Depending on the indications, patients reported a **significant relief of their symptoms, increased mobility** up to and including **complete freedom from pain** followed by an early resumption of normal movement and sport-specific training after between 1 and 20 local treatments with the **REPULS® Red Light Radiation Lamp**.

### Therapy with the REPULS® Red Light Radiation Lamp:

- irradiates skin, connective tissue, muscles and joints with cold pulsed red light.
- is simple
- is performed by placing the REPULS® Red Light Radiation Lamp on the skin
- takes between 5 to max. 20 minutes
- can be performed twice a day
- brings results after only a few treatments
- has no side-effects
- is suitable for all age groups over 6

## REPULS® is different:

### ... different to **Laser**

A laser emits highly concentrated light.

The **REPULS®** Red Light Radiation Lamp spreads light more broadly and can thus treat **larger areas**. This is necessary especially when treating tendons and joints.

**Side-effects are avoided.**

### ... different to **Infrared**

Infrared light is a **warm** light (invisible to the human eye).

The **REPULS®** Red Light Radiation Lamp emits **cold** light because the special principles underlying treatment with the REPULS®-method is based do not require the delivery of heat.

### ... different to **UV light**

UV light does not penetrate very deeply so that the high level of energy required to achieve adequate results would cause serious damage to tissue.

Irradiation with **REPULS®**-causes **no skin reaction** and thanks to its special frequency is able to penetrate deeply but **gently** into the tissue.

## REPULS® and its success



### **Roland Schwarzl**

Austrian Record Holder in Decathlon, 10th place in the Olympic Games, Bronze Medal Winner at the European Indoor Championships

“In recent years I have suffered repeated muscle injuries due to the strain my sport places on muscle attachments, joints and tendons. It was great to see the positive effects achieved by the Red Light Radiation Lamp after just three treatments. The irradiation also enables me to improve regeneration after training and competitions. I now take the REPULS® with me everywhere I go!”



### **Dr. Martha Schmid**

Specialist for Trauma Surgery and General Medicine, Medical Director RELUX®

“Many of my patients suffer from sequelae and pain after operations and accidents or chronic pain due to wear and tear. The innovative and very simple treatment offered by the REPULS® Red Light Radiation Lamp makes it possible to rapidly alleviate or eliminate pain completely – even in patients who have been suffering from persistent pain.

This pain relief makes physical therapy measures so much more effective“.

### **Hans Holdhaus**

Head of the IMSB Austria Olympia Centre in Südstadt

“The REPULS® Red Light Radiation Lamp has become a fixed element of our treatment programme. It can be used in top level sports (at the Olympic Games) as well as in amateur and recreational sporting activities. The advantages are obvious: The device is extremely effective, is simple to transport and easy to use. At the IMSB Austria Olympia Centre in Südstadt we can no longer imagine cutting-edge therapies without the REPULS® Red Light Radiation Lamp!”

### **Dr. Harald Zehetgruber**

First Orthopaedic Department, Orthopaedic Hospital Speising, Vienna

“Treatment with the REPULS® Red Light Radiation Lamp is completely painless. Its use triggers a biochemical reaction that reduces local inflammation processes. The broad range of applications makes it possible to treat a host of acute and chronic orthopaedic disorders – and with no side effects.“

Further firsthand reports and detailed information about the REPULS® Red Light Radiation Lamp can be found on our website [www.relux.at](http://www.relux.at).

Your representative

**Attention:** In accordance with the applicable safety regulations **protective goggles** must be worn when using the REPULS® Red Light Radiation Lamp. The device may not be used on patients with pacemakers or any other type of electronic implant!

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The **REPULS® Red Light Radiation Lamp** was **developed** by the Technical University of Vienna and Authenta GmbH and is protected by the **Austrian Patent No. 505 280**.  
Invented by: **Prof. Walter Toriser**