NEW WAVE IN HEALTH CARE

Over the past couple of decades, professionals and patients alike have welcomed a wealth of changes and improvements in health care. In the scientific world, there has been excitement over numerous innovative breakthroughs, with research highlighting the efficacy of various new treatments. Some of these harness the most modern state of the art techniques, while others draw on natural resources and mechanisms as old as time. Many of the most successful examples are a combination of both ancient and modern ideas, which is clearly more appealing to the general public.

There is great curiosity about what science can offer, although there is also scepticism about the possible side effects and problems that new drugs and treatments may bring. More than ever, people wish to further their understanding of the knowledge and wisdom used by their ancestors and are desirous of health treatments in which they can trust. People have more questions than ever before, such as “Is it safe?” and “Are there any side effects?”. They want to appreciate and understand all available options and have more control over their personal health and the health of their loved ones.

As medical experts and others rely more and more on a holistic approach to preventive health care and treatments, BIOPTRON Light Therapy is found to be a welcome new addition to this field.

Hippocrates’ healing philosophy has begun to re-influence the medical fields: “First, do no harm” and “Honor the healing power of nature.”
A BREAKTHROUGH IN MEDICINE: BIOPTRON LIGHT THERAPY SYSTEM

The BIOPTRON Light Therapy System is a powerful light therapy technology demonstrating a remarkable degree of visionary commitment. In the early 1980s, a team of scientists discovered the significance of polarized polychromatic light. Based on this research, the BIOPTRON Light Therapy System was created. Since 1988, BIOPTRON AG has invested in further sophisticated research and new product developments necessary to achieve optimal clinical effectiveness in light therapy treatments.

Consequently, the BIOPTRON Light Therapy System draws on more than 20 years of experience and is used by physicians and nurses in hospitals and by families and individual users at home, all benefiting from the positive effects on the human body.

The patented technology of the BIOPTRON Light Therapy System can enable clinical success with consistently remarkable results in the prevention and treatment of various medical disorders. High-quality technology and innovative design without complexity in use and with no known adverse effects. BIOPTRON Light is a supportive tool for both clinical and home environments.
BIOPTRON LIGHT THERAPY
LIGHT THERAPY -
KNOWN FOR THOUSANDS OF YEARS

Light therapy already has a very long history, since for thousands of years people all over the world have revered the importance of light for the normal functioning of the human body.

The first source of light used for medical treatments was sunlight. The use of sunlight for medical treatments is known as heliotherapy. The first anecdotal records indicate that the use of heliotherapy dates from about 1400 B.C. Hindus treated patients with skin disorders using different plants followed by exposure to sunlight. Hippocrates, who lived in the IV century B.C., recommended sunlight to treat a variety of diseases. Ancient Egyptian, Greek, Roman and Arab physicians integrated light therapy in general medical treatments. Although many ancient physicians believed that the therapeutic effect of sunlight was due to heat of the sun, there was no scientific explanation for the sunlight therapy at that time.

At the end of the 19th century, heliotherapy was recognised by many physicians. In 1903 in Leysin, Switzerland, Dr. Rollier opened the first hospital for the treatment of tuberculosis and rachitis with sun exposure. In 1914 he published a book “La Cure du Soleil”, in which he reported his results with heliotherapy.

“Open-air” exposure to natural sunlight was widely used for the treatment of wounds during the First World War (1914-1918) and the Second World War (1939-1945) in the United Kingdom, Italy, France and Germany.
From heliotherapy to phototherapy

Important therapeutic effects of sunlight prompted many researchers to develop and use filtered solar radiation and artificial light sources. Thus, phototherapy had become an alternative to heliotherapy.

In 1893, the Danish physician Niels Ryberg Finsen developed one of the first devices capable to produce technically synthesized “sunlight.” There are clear advantages of technically synthesized light: parameters such as intensity and emitted light spectrum are controllable. In the period from 1895 to 1903, he treated more than 950 patients with lupus vulgaris (tuberculosis of the skin) using filtered, technically synthesized “sunlight”.

In 1903 he was awarded the Nobel Prize in Medicine for his research in light therapy and exceptional therapeutic results. Dr. Finsen hence is considered to be the founder of modern light therapy.¹

A REVOLUTIONARY BREAKTHROUGH IN THE LIGHT THERAPY & BIOPTRON

At the beginning of the development of photomedicine, mostly infrared and ultraviolet parts of the spectrum were used in light therapy.

In early 1980s, a team of scientists developed the idea of creating a light source that is originally based on laser technology but works with almost the whole range of visible light and a portion of infrared light.² The polarization of light was considered an important parameter responsible for biostimulative effects.³ And the BIOPTRON Light Therapy System was designed based on this technology.

LIGHT IS ESSENTIAL FOR OUR LIFE AND HEALTH

Light plays an extremely important role in our lives. We know that there is no life without light!

The benefit of light extends far beyond our own personal sense of comfort and well-being: it is an essential part of our natural biological system necessary for the proper functioning of the metabolic and immune systems. Most enzymes, hormones and vitamins need light to function properly. An example known to everyone is the relationship between sunlight and vitamin D. Without sunlight, our body cannot produce vitamin D, and the deficiency of this vitamin can cause rickets (rachitis). A good example of the need that many enzymes have of light for their activation are the enzymes responsible for healing jaundice (icterus) in newborn babies. Because of this, babies with jaundice are placed under a blue light to cure the disease.

The functions of light are multiple in the human body. The absence of light can have serious adverse effects on our body and the normal physiological processes within it. Whenever the normal physiological processes and the balance between them is disturbed, disease will occur.
WHAT IS LIGHT EXACTLY?

Light is simply the visible part of the electromagnetic spectrum, frequently observed as the spread of colors displayed within the rainbow. The differences between these colors (and related forms of radiation) are defined according to the wavelength they occupy. At the highest frequencies we find gamma and X-rays, although other forms include ultraviolet, infrared and simple radio waves. There are all known collectively as the electromagnetic spectrum. The difference between them is their respective wavelength and their ability to penetrate the skin tissue.

**Ultraviolet light**
Ultraviolet light falls below the visible part of the electromagnetic spectrum and has a wavelength less than 400 nm. Ultraviolet light is responsible for the tanning of the skin. It is known that ultraviolet light is one of the most important aetiological factors responsible for the development of skin cancers (melanoma, basalioma) and for the ageing of the skin. BIOPTRON Light Therapy does not contain ultraviolet light.

**Visible light**
Visible light is within the visible part of the electromagnetic spectrum and has a wavelength of approximately 400 nm to 780 nm.

**Infrared light**
Infrared light is above the visible part of the spectrum. It has a wavelength of approximately 780 nm to over 50,000 nm. Infrared light has thermal effects, since it causes heating. Infrared therapy is now widely used in rheumatology and sports medicine for the treatment of pain and muscle strains.

**Laser light**
A light source that is commonly used in medicine is low-power (low energy) laser technology. Although the principles for the laser were first formulated by Albert Einstein in 1917, it was not until the 1960s that the first lasers were developed to become later widely used in medicine.

The word laser means “light amplification by stimulated emission of radiation”. **Laser light is different from natural light.**

The main characteristics of low-power laser light are:

- Monochromaticity (having only one wavelength at time)
- Coherency (meaning that the light is “in-phase”)
- Polarization (the light waves move on parallel planes)
- Low energy (using low-power energy and causing a stimulatory effect on the cells without thermal effect)

Lasers can be very dangerous when not used properly or by properly trained people. By contrast, the BIOPTRON Light Therapy System is not a laser device and its use does not require any particular training.
BIOPTRON LIGHT THERAPY SYSTEM

The BIOPTRON Light Therapy System is a medical light therapy device with a specific optical unit emitting light that is similar to a part of the electromagnetic spectrum produced naturally by the sun but with no UV radiation.

Biostimulation and disease prevention

BIOPTRON Light has so-called biostimulative effects. When applied to the skin, it stimulates light-sensitive intracellular structures and biomolecules. This initiates cellular chain reactions and triggers so-called secondary responses, which are not only limited to the treated skin area but can involve the whole body.

BIOPTRON Light Therapy can help to:
- Improve microcirculation
- Harmonize metabolic processes
- Reinforce the human defence system
- Stimulate regenerative and reparative processes of the entire organism
- Promote wound healing
- Relieve pain or decrease its intensity

Unique technology of the BIOPTRON Light

Light must be absorbed to produce a biological response. Different tissues and cells in the body have unique light absorption characteristics (optical properties), which determine which wavelengths of light will be absorbed to produce a given therapeutic effect.

Each cell will absorb light at specific wavelengths. Also, the different wavelengths can affect different tissues and cells of the body. This is why the BIOPTRON Light Therapy System has combined several basic wavelengths in one unit. BIOPTRON Light uses a combination of infrared and visible light wavelengths that is considered to be beneficial in the treatment of different types of problems and injuries.

Both visible and infrared light has been shown to affect different positive changes at a cellular level. There is no single mechanism of action of the BIOPTRON Light. Biostimulative effects of BIOPTRON Light are the result of synergy between different mechanisms of action.

BIOPTRON - user friendly and effective therapy

BIOPTRON technology became widely used and accepted in medicine as a user-friendly, effective, non-pharmacological medical device. In over 20 years of clinical research worldwide, it has been shown to be supportive in conservative management of acute and chronic injuries as well as in post-operative wounds.
**BIOPTRON Light Therapy**

**BIOPTRON advantages:**
- Wide range of applications
- Application in professional and home environment
- Easy to use (no special skills needed)
- Safe and non-invasive
- Short treatment time
- Painless treatment
- No UV radiation
- No known negative side effects
- Economically viable (cost-effective)
- Relaxing and calming experience
- Swiss-made

**THE TECHNICAL CHARACTERISTICS OF BIOPTRON LIGHT**

The BIOPTRON Light Therapy System is designed and manufactured in such a way that the light emitted by this medical device can be characterised as:

1. **Polarized light**
   - BIOPTRON Light is polarized light: its waves move (oscillate) on parallel planes.
   - The polarization is generated using a sophisticated version of the Brewster multi-layer mirror system (named after the physicist who discovered this technology). The Brewster mirror is responsible for the polarization of the electromagnetic spectrum emitted by the BIOPTRON devices. Linear polarization by reflection, as in the BIOPTRON Therapy System, is very efficient, and the light emitted by the BIOPTRON devices reaches a polarization degree of 95%.

2. **Polychromatic light**
   - Unlike a laser system, which is limited to a very narrow bandwidth, the BIOPTRON Light encompasses a wide bandwidth. The wavelength ranges from 480 nm to 3400 nm. This spectrum contains the visible light range and a portion of infrared radiation. The electromagnetic spectrum of BIOPTRON Light does not contain ultraviolet (UV) radiation. Since there is no UV light, there is no risk of hazardous effects of UV irradiation.

3. **Incoherent light**
   - BIOPTRON Light is incoherent or “out-of-phase” light. Unlike laser light, BIOPTRON Light is not characterized by temporally or spatially synchronised light wave trains, which means that wave crests, and therefore the light’s intensity, will neither add nor subtract.

4. **Low-energy light**
   - BIOPTRON Light has a low energy density, reaching the area to be treated with a constant, steady intensity. This energy density has biostimulative effects. The dosage of the light applied can be precisely determined when using the BIOPTRON Light Therapy System.
Power Density
Unlike natural light, BIOPTRON Light is not subject to diurnal or seasonal variations. With BIOPTRON Light Therapy, therefore, the brightness and dosage can be precisely determined. Furthermore, the effect that light exerts is also defined by its power density. Power density is measured in mW/cm². Since it is measured at the skin’s surface, it varies depending both on the intensity of the light’s source and on its distance from the area to be treated. The specific power density of BIOPTRON Light is approximately 40 mW/cm² at a treatment distance of 10 cm. This is equivalent to an energy density (fluence) of an average of 2.4 J/cm² per minute.

PENETRATION OF THE BIOPTRON LIGHT THROUGH SKIN

The following figure shows a cross-section of the skin and demonstrates how the bio-positive effects of light are induced. It also shows why the biopositive influence of light is transmitted to the whole body, even if light is only received regionally. The diagram shows three layers of skin: the dermis, the epidermis and the subcutaneous tissue (tissue and fat tissue under skin). We can also see how veins, arteries and fine blood capillaries are connected to the skin surface. The number of the capillaries per square centimeter of skin is between 1,600 to 6,500. Whilst our blood flows through all the tissue of our body at a varying rate, blood flows slowly in the capillaries situated very close to the skin surface. This is an ideal prerequisite for the photomodulation of blood. Biopositive effects from light transmitted to blood in this way can be carried throughout the whole body, supplying vital oxygen and energy to every cell.

The display with the wavelength scale shows the average penetration depth of the different wavelength ranges of all light emitted by the sun. It clearly shows specifically that those light waves in the visible light range are the ones that most deeply penetrate the skin. The red and dark-red light waves penetrate the deepest of all waves in the visible light spectrum. All visible light waves reach at least the subcutaneous tissue.

WHEN TO USE BIOPTRON LIGHT THERAPY?

BIOPTRON Light Therapy can be used both as a complementary treatment to support conventional medical methods and as monotherapy for certain indications. However, we recommend consulting a physician before using BIOPTRON Light Therapy in order to receive professional advice as to whether this treatment is recommendable or whether other medical treatment is necessary.
BIOPTRON APPLICATION
In the area of wound healing, BIOPTRON Light Therapy can be used as monotherapy and/or complementary therapy for the treatment of:

- Wounds after an injury (post-traumatic wounds)
- Burns
- Wounds after an operation (post-surgical wounds)
- Decubitus (pressure sores)
- Leg ulcers

**Normal wound healing** is a complex process consisting of different events divided into three overlapping phases: **inflammation, proliferation** (granulation tissue formation) and **remodelling**. The process of wound healing requires the interaction of cells in the dermis (lower part of skin) and epidermis (upper part of skin) as well as the activity of chemical mediators (biochemical substances responsible for biological activities in the human body) released from inflammatory cells, fibroblasts and keratinocytes (specific cells playing a part in wound healing, for example).

Professor Mester from Hungary and his collaborators first introduced the use of light irradiation as a phototherapeutic modality for the induction or acceleration of wound healing in the 1970s.²⁷

BIOPTRON Light treatment can promote and speed up wound healing and lead to rapid regeneration of epithelium (skin tissue) in the edges and depths of a wound.

**Chronic wounds** are a frequently encountered problem in elderly and bedridden patients. Typical characteristics of chronic wounds include a loss of skin or underlying tissue and failure to heal with conventional types of treatment.

Chronic wounds are difficult to heal and require a long time to complete closure. The relative resistance of chronic wounds to a wide range of therapeutic approaches and the absence of a standard single therapy for the treatment of chronic wounds shifted the attention of many researchers toward the investigation of other therapies in patients with chronic wounds. General ineffectiveness of traditional regimens in the management of chronic wounds has led clinicians to study intensively complementary treatments as adjunct therapies to conventional treatments for the healing of chronic wounds. The use of different sources of light in wound healing therapy has gained particular attention in the last few decades, and many clinical studies have evaluated the role of light therapy in the management of chronic wounds.

BIOPTRON Light Therapy can promote and speed up wound healing through the stimulation and modulation of reparative and regenerative processes, anti-inflammatory effects and enhancing processes of the human defence system. This type of phototherapy can be considered a valuable therapy for the treatment of various wounds and wound healing disorders.⁸
**Leg ulcers**

A leg ulcer is defined as a wound on the leg, below the knee, that fails to heal within 6 weeks. Venous leg ulcers constitute the majority of all leg ulcers and are responsible for up to 80% of lower extremity ulcerations. An overall prevalence of venous leg ulcers ranges from 0.06% to 2.2% with a tendency to increase as the population ages. The prevalence of venous leg ulcers in patients aged 70 years is estimated to be 1% to 4%.

Venous leg ulcer refers to a failure of the venous system to return blood to the heart. This is usually caused by incompetent valves in the deep veins, the long saphenous vein, the short saphenous vein or the perforator veins of the calf. These veins are situated in the legs.

Due to weak venous valves, blood from the deep veins in the legs flows back into the minor veins (called the superficial veins), whereas the traffic should only be one-way. This leads to a build-up of blood in the superficial veins, which will slow down and may eventually stop. That can cause a metabolic breakdown, particularly in the surrounding skin area. As a result, the skin might start to degenerate, giving rise to inflammation and, ultimately, development of the ulcer.

Venous leg ulcers are difficult to heal and their complete healing can take years, with recurrence being a problem. Many patients with leg ulcers suffer from pain and some also have problems with sleep and mobility. The considerable morbidity of venous ulcers seriously impairs the quality of life in the majority of patients.

The positive effect of BIOPTRON Light Therapy on cells and the tissue can enhance the healing process in patients with venous leg ulcers. BIOPTRON Light applied as a monotherapy was associated with the induction of complete wound healing in patients with venous leg ulcers. BIOPTRON Light Therapy can also be considered effective in the treatment of venous leg ulcers when it is used as a component of a total wound management program.9

**Decubitus (pressure sores)**

The bedsore is a pressure ulcer, caused by prolonged pressure in patients confined to a bed or wheelchair for an extended period of time. They tend to develop on areas of the body where bony prominence is not protected by muscle tissue, such as the sacrum (tailbone), heels, elbows and shoulder blades. When pressure cuts off the blood supply, cells and tissue of the skin are damaged and ulcers will start to form, creating a breeding ground for harmful bacteria and further infections increasingly resistant to available antibiotics.

One in ten hospital patients, one in eight home care patients, and one in four nursing home patients suffers from bedsores. The problem is growing worse, partly because of an ageing population. Hospital stays are increased in patients with bedsores, creating a huge waste of funds and resources.

Treatment generally involves taking pressure of the area (hence nurses or health care providers turning and moving their patients). The ulcers are cleaned, although occasionally they require surgical intervention. As light therapy is used as a part of the management of patients with bedsores in general, BIOPTRON Light Therapy has shown to be an effective therapy available to facilitate the healing. Light therapy also plays a role in the prevention of bedsores by reducing the burden of suffering associated with pressure ulcers.10
Burns

BIOPTRON Light Therapy has been used for the treatment of burn injuries for many years. Most of us have burnt ourselves at some point in our lives. Usually, this can be shrugged off, as the body heals itself, but for some people the results can be serious. However, the vast majority of burns are those superficial injuries that affect only a small area of the skin. These are normally caused by the action of heat on skin, which may include solar rays, open fires, or contact with a hot stove or hot liquids.

The treatment of these burns depends on the depth and severity of the injury concerned. A classification system for these injuries was established that determines the precise nature of treatment (conservative or surgical) to be administered.

First-degree burns are the mildest forms of burns. A good example is a simple sunburn. First-degree burns are normally characterized by some reddening of the affected skin, a slight swelling and some pain or discomfort (although anyone who has suffered from sunburn may take issue with this). Nevertheless, the symptoms of these burns usually disappear after a few days without leaving any scar.

Second-degree burns are called partial thickness burns and are divided into superficial and deep varieties. In the superficial second-degree burn, the entire epidermis (upper part of skin) and a superficial part of the dermis (lower part of skin) is destroyed. However, since the depth of burn is relatively superficial, usually there is no long-term damage to the epidermal appendages such as hair follicles, sweat glands or nerve endings. The damaged skin can regenerate approximately two weeks after the injury occurred.

Deep second-degree burns, on the other hand, are much more serious. There is generally damage into the deep layer of the dermis, with only a few epidermal appendages left at the base of the wound. These wounds often require surgical removal of dead tissue and transplantation of the skin (skin grafting). More than 50% of burns are deep second-degree burns or full dermal burn wounds.

In third-degree burns (full thickness burns) all layers of the skin are destroyed, leaving no possibility for the injury to heal naturally (unless the burn covers a very small area). The wounds are pale and insensate; the only possible treatment is surgery. The major complications in the healing of burns are the occurrence of infection and the development of bad scars (hypertrophic scars and keloids) and contractures.
BIOPTRON for 1st-degree and superficial 2nd-degree burns healing

First-degree and superficial second-degree burns can be treated with conservative local medical treatments in combination with BIOPTRON Light Therapy treatment. Several studies showed that the routine use of BIOPTRON Light Therapy for the treatment of these burns can significantly reduce the time necessary for complete epithelisation (regeneration of the skin) of the damaged skin (complete healing), reducing the risk for the formation of the functionally and aesthetically unacceptable scars. BIOPTRON Light Therapy can reduce the need for surgery in the treatment of deep dermal burns, particularly those located in areas where the likelihood of scar formation after surgery is extremely high (e.g., hands, head and neck area). 12

According to the clinical findings, the application of pressure therapy, which is part of the treatments used in the management of burns, can start earlier if the burn area is previously treated with the BIOPTRON Light.

If the injured parts are treated with BIOPTRON Light, the physiotherapy can be started immediately and without interruption. This is not the case with surgically operated hands, which always require a period of immobilisation.

BIOPTRON supports deep 2nd-degree burns healing

BIOPTRON Light Therapy can also be used in patients with deep second-degree burns after the surgical procedures. BIOPTRON Light can be supportive to reduce the healing time and hospitalisation period while improving the quality of care.

BIOPTRON Light Therapy has become the therapy of choice for the treatment of deep dermal burns.11
In the area of pain treatment, BIOPTRON Light Therapy can be used as monotherapy and/or complementary therapy for the following conditions:

- **Rheumatism**: osteoarthritis, rheumatoid arthritis (chronical), arthroses
- **Physiotherapy**: low back pain, shoulder and neck pain, carpal tunnel syndrome, scar tissue, musculoskeletal injuries
- **Sports medicine. Soft tissue injuries of muscles, tendons and ligaments like**: muscle spasm, sprains, strains, tendonitis, ligament and muscle tears, dislocations, contusions and tennis elbow

**BIOPTRON FIGHTS AGAINST RHEUMATISM**

BIOPTRON Light Therapy helps to alleviate pain and disability in patients suffering from various forms of rheumatism. This therapy can be the ideal complementary treatment method for a variety of pain management programs. Its beneficial influence can affect the patient’s general condition and can bring relief from pain symptoms. 12,18

**BIOPTRON Light Therapy in the treatment of rheumatic diseases can help to:** 13,14
- Relieve pain and decrease its intensity
- Strengthen muscles and expand body motion
- Increase walking distance and speed
- Improve the quality of sleep

**Rheumatoid Arthritis**

Light Therapy can be an effective complementary treatment for relieving pain and improving the quality of life in patients with rheumatoid arthritis. 15,20

Rheumatoid arthritis is a chronic, multisystem disease. Although there is a variety of systemic manifestations, the characteristic feature of this form of arthritis is persistent inflammation of joints, causing cartilage destruction and bone erosion and subsequently permanent joint deformities.

In centers specialising in the treatment of patients with rheumatoid arthritis, BIOPTRON Light Therapy has become part of the standard therapeutic procedures during hospitalisation. This form of the light therapy can be supportive for home use to control the pain in patients with rheumatoid arthritis.
BIOPTRON FOR PAIN RELIEF

BIOPTRON SWITCHES OFF YOUR DAY-TO-DAY PAIN

Back, shoulder and neck pain, carpal tunnel syndrome, scartissue or musculoskeletal injuries are very common and trouble some pains which can become a big handicap in your active life. Back pain is one of the most common complaints keeping people from enjoying a normal life and resulting in millions of lost work days. BIOPTRON Light Therapy is considered an excellent therapeutic tool in the treatment of back pain.15

**BIOPTRON Light therapy can help to:**16,19
- Relieve pain and muscle tightness
- Improve tissue nourishment
- Reduce swelling
- Speed regenerative processes and wound healing

BIOPTRON Light Therapy can also be an integral part of the treatment protocols applied in physical therapy and rehabilitation.

BIOPTRON KEEPS ATHLETES IN PLAY!

BIOPTRON Light accelerates tissues regeneration thus helps athletes to shorten the healing time of various sport injuries.

**BIOPTRON Light Therapy can help athletes to:**16,17
- Bring relief to aching muscles
- Soothe muscle and joint pain
- Increase the range of active and passive movements of joints
- Allow quicker recovery of muscular and joint activity
- Support the treatment of painful sports injuries like tendon problems, muscle problems, contusions, dislocations, strains, sprains, abrasions, bruises
- Reduce inflammations and swellings

Different sports injuries can be treated with BIOPTRON Light Therapy in order to accelerate tissue regeneration and healing.
<table>
<thead>
<tr>
<th>NO.</th>
<th>INDICATION FOR USE</th>
<th>SPECIFIC PROBLEMS / SYMPTOMS</th>
<th>SUGGESTED TREATMENT DURATION</th>
<th>SUGGESTED NUMBER OF TREATMENT SESSIONS</th>
<th>SUGGESTED APPLICATION SITE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>General well-being &amp; relaxation</td>
<td>At any part of the body in relaxed position</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image1" alt="Applicaiton Sites" /></td>
</tr>
<tr>
<td>2.</td>
<td>Improved circulation in small blood vessels</td>
<td>At any part of the body where improved circulation is required – e.g. at the site of an injury</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td>Example: Injury to hand</td>
</tr>
</tbody>
</table>
| 3.  | Promotion of wound healing  
a) Treatment of minor burns | Superficial burns – e.g. mild sunburn  
Some partial thickness (deeper) burns – e.g. scald from hot liquid | 2-8 minutes | 1-2 per day for as many days as required | Wherever required: |
|     | b) Treatment of skin ulcers | Venous leg ulcers  
Diabetic foot ulcers  
Pressure sores | 2-8 minutes  
2-8 minutes  
2-8 minutes | 1-2 per day for as many days as required | ![Applicaiton Sites](image2) |
|     | c) Treatment of post-operative wounds | Surgical incisions | 2-8 minutes | 1-2 per day for as many days as required | Example: Appendix incision |
|     | d) Treatment of traumatic injuries  
(see also 10 below for further details) | Cuts  
Bruises | 2-8 minutes  
2-8 minutes | 1-2 per day for as many days as required | Example: Cut to knee/finger |
| 4.  | Stimulation of immune (body defence) system | | 4-10 minutes | 1-2 per day for as many days as required | ![Applicaiton Sites](image3) |
| 5.  | Reduction of pain (general) | Pain at any part of the body | 4-10 minutes | 1-2 per day for as many days as required | ![Applicaiton Sites](image4) |
| 6.  | Lower back pain | Muscular & mechanical lower back pain (injury to back muscles, ligaments, vertebrae (back bones) and/or joints between vertebrae)  
Lower back stiffness (spasm of back muscles)  
Difficulty in walking (due to back pain & muscle spasm) | 4-10 minutes | 1-2 per day for as many days as required | ![Applicaiton Sites](image5) |
<table>
<thead>
<tr>
<th>NO.</th>
<th>INDICATION FOR USE</th>
<th>SPECIFIC PROBLEMS / SYMPTOMS</th>
<th>SUGGESTED TREATMENT DURATION</th>
<th>SUGGESTED NUMBER OF TREATMENT SESSIONS</th>
<th>SUGGESTED APPLICATION SITE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>Arthritis -</td>
<td>Pain / swelling/ stiffness in hip joint</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Osteoarthritis</td>
<td>Pain / swelling/ stiffness in knee joint</td>
<td>4-10 minutes</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Pain/ swelling/ stiffness in hand / finger joints</td>
<td>4-10 minutes</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>b) Rheumatoid arthritis</td>
<td>Pain/ swelling/ stiffness in hand / finger joints</td>
<td>4-10 minutes</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Pain / swelling/ stiffness in shoulder</td>
<td>4-10 minutes</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Pain / swelling/ stiffness in neck</td>
<td>4-10 minutes</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Pain/ swelling/ stiffness in foot / toe joints</td>
<td>4-10 minutes</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Pain / swelling/ stiffness in knee joint</td>
<td>4-10 minutes</td>
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<tr>
<td>8.</td>
<td>Carpal tunnel syndrome</td>
<td>Tingling, aching, numbness in one or both hands</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Loss of feeling in the fingers</td>
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<tr>
<td></td>
<td></td>
<td>Poor grip (caused by weakness in finger muscles)</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>Pain in the wrist/arm/shoulder</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Tennis elbow</td>
<td>Pain in elbow region</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pain in muscles around elbow</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Stiffness in elbow region</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>10.</td>
<td>Soft tissue injuries -</td>
<td>Pain around sprained joint</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Sprained ligament</td>
<td>Swelling in sprained joint</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Difficulty in movement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Strained muscle or tendon</td>
<td>Pain in area of strain</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Swelling around the injury</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Difficulty in movement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Bruise</td>
<td>Pain in injured area</td>
<td>2-8 minutes or 4-10 minutes if more severe</td>
<td>1-2 per day for as many days as required</td>
<td>Example: Bruised sholder/knee</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Swelling around the injury</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) Tendinitis (tenosynovitis)</td>
<td>Pain at inflamed tendon</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stiffness of inflamed tendon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weakness of affected joint</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

We recommend consulting a physician before using BIOPTRON Light Therapy in order to receive professional advice whether this treatment is recommendable or other medical treatment is necessary.
<table>
<thead>
<tr>
<th>NO.</th>
<th>INDICATION FOR USE</th>
<th>SPECIFIC PROBLEMS / SYMPTOMS</th>
<th>SUGGESTED TREATMENT DURATION</th>
<th>SUGGESTED NUMBER OF TREATMENT SESSIONS</th>
<th>SUGGESTED APPLICATION SITE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>e) Bursitis</td>
<td>Pain in affected joint area&lt;br&gt;Swelling in affected joint area&lt;br&gt;Difficulty in moving affected joint</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>f) Repetitive strain injury (RSI)&lt;br&gt;- Tendinitis (tenosynovitis)&lt;br&gt;- Bursitis</td>
<td>Pain in affected joint area&lt;br&gt;Swelling in affected joint area&lt;br&gt;± Weakness of affected joint&lt;br&gt;Difficulty in moving affected joint</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>11.</td>
<td>Pain relief in the elderly -&lt;br&gt;a) Arthritis</td>
<td>Pain, stiffness, loss of normal joint function</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>b) Soft tissue injury</td>
<td>Sprains &amp; strains&lt;br&gt;General aches &amp; pains</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>c) Rehabilitation</td>
<td>After hospitalisation or long illness</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image5.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>d) Promotion of wound healing</td>
<td>Skin ulcers &amp; sores – venous ulcers, diabetic foot ulcers, pressure sores&lt;br&gt;Surgical wounds&lt;br&gt;Cuts &amp; bruises</td>
<td>2-8 minutes&lt;br&gt;2-8 minutes&lt;br&gt;2-8 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>e) Improved blood circulation healing</td>
<td>For example - at the site of an injury</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image7.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>f) General well-being &amp; relaxation</td>
<td>To help relieve stress &amp; muscle tension</td>
<td>4-10 minutes</td>
<td>1-2 per day for as many days as required</td>
<td><img src="image8.png" alt="Image" /></td>
</tr>
</tbody>
</table>
BIOPTRON FOR BEAUTY AND WELL-BEING
YOUR BEAUTY DESERVES A LOT OF LIGHT

Stress and polluted air causes the complexion to be oversensitive, dry and non-flexible, thus prematurely aging it. BIOPTRON Light Therapy can help to eliminate these unpleasant effects.

BIOPTRON Light supports cell renewal, the flow of nutrients and the synthesis of collagen which keeps the complexion flexible. Thus, BIOPTRON can refine existing wrinkles and prevent premature formation of new ones.

BIOPTRON does not completely substitute cosmetic preparations, but serves as their significant supplement. It supports good absorption of active substances contained in cosmetic preparations, thus enhancing their effects.

LIGHT PUTS YOU IN A GOOD MOOD

Light is a source of good temper, high concentration, activity and vitality. Our mood is influenced by the hormones serotonin and melatonin, the amount of which is changed with the time of the day and also with the season of the year. It has been proven that looking at the sunset creates these mood affecting hormones through the eye retina, while a look into the darkness terminates their production. That is why populations in sunny regions have much lower rates of depression than populations in regions without much sunlight.

With BIOPTRON Light Therapy you can provide light to your body in an absolutely natural way. And while solar radiation contains UV spectrum that can have negative impacts on human body, BIOPTRON Light does not contain it and thus does not cause any health risks.
APPLICATION OF BIOPTRON LIGHT

BIOPTRON Light Therapy has to be performed individually. The duration of each session and of the entire course of treatment depends primarily on the health problem and area to be treated. Depending on the indication, the BIOPTRON Light Therapy treatment will only take a few minutes once or twice a day. The therapy should be applied while you have time to relax and can enjoy it.

Step 1
Before using the BIOPTRON Light Therapy, clean the area that you wish to treat. Note: Any dressings or coatings must be removed before treatment.

Step 2
Relax and point the light beam onto the area to be treated. Hold the device at a right angle of 90° and keep a distance of approx. 10 cm (4 inches). The light beam should not be moved during the treatment. Cover large areas by treating them point-by-point until the whole surface has been covered.

Step 3
Apply the BIOPTRON Light Therapy once or twice a day (e.g. every morning and/or evening) for in general 4 to 10 minutes or according to the instructions of your physician.

Step 4
Repeat the above points for each area on the body to be treated.

Step 5
Unplug the device after use.

For additional information please see the Operating Instructions.
The BIOPTRON 2 Light Therapy device is primarily designed for use by health professionals. Different stands are available (professional, Y-stand) to assure the best-fitting solution for every need. The easy positioning allows a comfortable treatment for the patient as well as for the medical professional user.

On a control panel the duration of each treatment session can easily be preset up to 95 minutes, dividable into minute-steps. The filter diameter (approx. 15 cm) permits the treatment of larger areas and hence offers a time effective therapy. The BIOPTRON 2 guarantees highest comfort in any applications and is like the other BIOPTRON Light Therapy devices very easy to use.

**Technical Data**

- **Power supply**: 100-240 V~, 50/60 Hz
- **Power consumption**: 1.4-1.0 A
- **Fuse**: T2 A/250V
- **Rated power of halogen**: 90 W
- **Protective class**: Class I, IP 20
- **Weight without stand**: 4.3 kg
- **Ambient temperatures**
  - **Operation**: +10 °C to +40 °C
  - **Storage**: +5 °C to +45 °C
- **Wavelength**: 480-3400 nm
- **Degree of polarization**: >95% (590-1550 nm)
- **Specific power density av.**: 40 mW/cm²
- **Light energy per minute av.**: 2.4 J/cm²
- **CE labeling**:

The manufacturer reserves the right to make technical alterations and design modifications.
BIOPTRON Pro 1 (WITH TABLE AND FLOOR STAND)

The BIOPTRON Pro 1 Light Therapy device is designed for use at home, in hospitals and therapeutic centers. The device is available either with a functional floor stand and/or an ergonomic table stand allowing flexible use in domestic and professional environment. Easily adjustable height and head inclination as well as the ability to rotate the device head up to 360° allow a convenient usage for nearly any position. Treatments can be easily timed by a control panel down to 30 seconds. An integrated distance rod ensures the recommended distance to the skin surface. The table stand is additionally equipped with a dust cover and a comfortable supportive mat (disinfectable, exchangeable and washable). The filter diameter of the BIOPTRON Pro 1 (approx. 11 cm) allows the treatment of small as well as bigger areas. The BIOPTRON Pro 1 guarantees highest comfort in any applications and like the other BIOPTRON Light Therapy devices is very easy to use.

Technical Data

- Power supply: 100-240 V~, 50/60 Hz
- Power consumption: 160 VA
- Rated power of halogen: 50 W
- Protective class: Class II, IP 20
- Weight:
  - with table stand: 3.4 kg
  - with floor stand: 7.8 kg
- Ambient temperatures:
  - Operation: +10 °C to +40 °C
  - Storage: +5 °C to +45 °C
- Wavelength: 480-3400 nm
- Degree of polarization: >95 % (590-1550 nm)
- Specific power density: av. 40 mW/cm²
- Light energy per minute: av. 2.4 J/cm²
- CE labeling

The manufacturer reserves the right to make technical alterations and design modifications.
BIOPTRON Compact III

The BIOPTRON Compact III Light Therapy device is designed primarily for use at home, but can of course also be applied by health professionals in hospitals and therapeutic centers. The optionally available floor stand allows an optimal setting and a convenient treatment of the whole body, while being collapsible and space-saving in storage. For comfort reasons the BIOPTRON Compact III is equipped with an integrated timer that emits a beep every 2 minutes. The filter diameter (approx. 4 cm) allows the selective treatment of small areas, although bigger treatment areas can easily be treated successively. The BIOPTRON Compact III is delivered in a handsome, especially designed case which allows smart and safe storage and transport.

Technical Data

- Power supply 100-230 V~, 50/60 Hz
- Power consumption 56 VA
- Rated power of halogen 20 W
- Protective class Class II, IP 20
- Weight without stand 0.5 kg
- Ambient temperatures
  - Operation +10 °C to +40 °C
  - Storage +5 °C to +45 °C
- Wavelength 480-3400 nm
- Degree of polarization >95 % (590-1550 nm)
- Specific power density av. 40 mW/cm²
- Light energy per minute av. 2.4 J/cm²
- CE labeling

The manufacturer reserves the right to make technical alterations and design modifications.
BIOPTRON COLOR THERAPY

The BIOPTRON Color Therapy provides well-being for health-conscious people. Using the six or seven colors of the spectrum, BIOPTRON Color Therapy aims to balance and enhance our body’s energy centers and also to help stimulate our body’s own healing process.

The Five Focal Points of BIOPTRON Color Therapy:
- energy reserves
- power of resistance
- inner well-being
- metabolism
- skin and body tissues

THE INFLUENCE OF COLORS 21

The primary colors
Red: activates, vitalizes, dynamizes, intensifies, releases energy blocked deep within the system, gives new boost to processes that have been stagnating, sluggish and reduced, strengthens the senses.

Blue: soothes, inhibits, focuses, cools down, collects and structures energy, re-regulates hyperactive, inflammatory, and derailing processes, brings serenity and clarity.

Yellow: fortifies, tones, opens, brightens, stimulates without exciting, extends energy, reinforces weak processes, loosens overly rigid structures, strengthens the nerves.

The complementary colors
Green: equalizes, relaxes, calms down, keeps physical and mental energy dynamically balanced, releases tensed-up, painful processes, brings profound serenity.

Orange: restores, animates, warms, stimulates, works more gently than red, building up energy step by step, unlocks deadlocked processes, cheers up.

Purple: inspires, attenuates, reduces, transforms energy on a high level, supports mental processes, relaxes the nerves, soothes nervous irritations, relieves pain.

Indigo: purifies the blood stream, helps to stop bleeding, cooling and astringent, assist in all nervous ailments, treating nasal diseases, asthma, convulsions, whooping cough.

BIOPTRON Compact III COLOR THERAPY SET

The BIOPTRON Compact III Color Therapy Set consists of 6 colored filters and 3 bioinformed therapeutic products which work together to enhance any color therapy session. The six colored glass filters consist of red, orange, yellow, green, blue and purple. They are all made in a very particular way so that their properties are as close as possible to those of the natural sources of these colors.

Besides being handmade with all the skill and care, the glass filters are enriched with bioinformation. Using biophysical methods and devices, the Zurich-based Institute for Bioinformation has been developing highly structured regenerative information patterns for years. These patterns are obtained from plants, precious stones, metals, minerals, trace elements as well as inert gases, fermenting substances and others.

The bioinformed therapeutic products

Due to the high-quality active plants principles and the bioinformed volatile essences of these preparations, they not only support BIOPTRON Color Therapy, but are essential part of its effectiveness.

Light Fluid

Liquid Fluid optimally prepares and supports each step of the treatment by:
- assisting the implementation of light and color spectra on the skin
- cleansing the skin using biodegradable plant surfactants (corn, coconut, palm kernel)
- calming and fortifying
- relaxing skin and body tissues
- regulating perspiratory glands
Balancing Gel

Balancing Gel acts in an extremely relaxing, refreshing and restorative manner by:

• activating the energy flow
• removing metabolic products
• strengthening the blood vessels
• unwinding
• vitalizing
• storing energy reserves in skin and body tissues
• increasing the power of resistance

Crystal Cream

Crystal Cream stimulates and replenishes both your skin and mind by:

• nourishing and regenerating skin cells
• relieving tensions
• mobilizing mental powers
• sensitizing the sensory capabilities of the skin

This set is intended for using with the BIOPTRON Compact III device.

OXY STERILE SPRAY

Oxy Sterile Spray is pure water enriched with a high concentration of pure oxygen, for stimulating, cooling, refreshing and moisturizing your skin and body.

• moisturizing
• refreshing
• vitalizing
• balancing
• calming
• relieving
• protecting

Oxy Sterile Spray can help to:

• Effectively complete your daily skin care with extra hydration and softness
• Improve skincare treatment
• Fix your make-up
• Support your skin's functions
• Refresh your skin leaving a youthful appearance
• Calm the skin after shaving or after sun exposition
• Help your skin to fight environmental pollution

On its own Oxy Sterile Spray can be used whenever you want to refresh and vitalize the skin. Combined with other cosmetic products it can be used to complete the facial cleansing and as a finishing touch to the daily skin care. The subtiest dispersion of the spray also allows the use over make up for fixation.

Oxy Sterile Spray is a natural and unique skin care product formulated to provide our human skin with hydration and vitality. Our skin needs oxygen and water to stay healthy. In the process of ageing our skin vitality depends increasingly on sufficient supply of oxygen and water. A lack of oxygen can result in a change of the skin’s metabolism causing the skin respiration to slow down, what finally can cause premature skin ageing.

Oxy Sterile Spray is suitable not only for the face but for the entire body. Simply spray a thin layer Oxy Sterile Spray on the skin. Do not wipe or pat dry, but let it dry by itself.
BIOPTRON AG
LEADER IN THE LIGHT THERAPY
BIOPTRON AG was founded in 1988 and dedicates its work to the research, development and production of medical devices – the BIOPTRON Light Therapy System.

In spring 1996 the company was integrated with the ZEPTER GROUP enabling BIOPTRON AG to profit mutually from synergy and distribution channels so as to enlarge the distribution of the BIOPTRON Light Therapy System to over 50 countries. Our medical devices are manufactured in the BIOPTRON AG production plant in Wollerau which is close to Zurich - the economic center of Switzerland.

BIOPTRON products are developed in close cooperation with research departments of universities, clinics and specialists. We constantly test and optimize our devices based on scientific studies carried out by independent institutions.

All products are manufactured in our own production plant by skilled workers who are supported by modern production systems. We conduct extensive quality controls in every step of production to assure the highest quality.

BIOPTRON AG has established a Quality Management System according to ISO 9001, ISO 13485, CMDR / CMDCAS and QSR / GMP requirements.

Our products fulfill all regulations pursuant to the medical directive 93/42/EEC of the European Community as well as particular national regulations of the appropriate markets.

BIOPTRON AG strongly believes that patients want to work in partnership with medical experts and where practitioners are providing light therapy treatment. For patients who wish to use our therapy themselves, BIOPTRON is on hand at all times with all the necessary information, guidance and support.

Visit us at www.bioptron.com
Zepter International is a multinational company which is based in Switzerland. It produces, sells and distributes consumer goods for each person and for every family. All of our products are intended to enhance the quality of life of people around the world.

**Zepter - Striving for a longer, healthier and happier life**

Our mission of health and beauty is addressed to each and everyone of you. Inspired by the true genius and the vision of our founder, Mr. Philip Zepter, hundreds of thousands of employees all over the world are working every day to:

- protect the health of each individual and each family
- help people to live longer, look better and be happier
- improve the standard of living and overall quality of life

We, at the company Zepter International, bring about positive changes globally and locally. We want to put creative minds and top-level technology to service of the overall welfare of our planet. We offer solutions to fit everyone; solutions which are adapted to individual needs and aimed above all, at the highest values - health, beauty and, a longer and happier life.

Our mission of health and beauty now includes more than 600 million people all over the world. Here is a fact which illustrates the extent of our planetary mission that we are so very proud of: every 2.5 seconds someone in the world starts a new presentation of our products.

**Zepter Products - A Bridge between man and nature**

Zepter conquered the world in a very easy way - with the top quality and design of its products, as well as with the top quality of its customer services to its customers.

The secret of success for our mission of health and beauty is that we have established a safe and lasting bridge between man and nature. With Zepter products we return to a natural healthy way of living.

**All Zepter products are divided into five brand divisions:**

- Medical
- Cosmetics
- Luxury
- Home Art
- Home Care

The quality, functionality and design of all Zepter products touch perfection. Wherever you see the name “Zepter”, you can be sure that it means: QUALITY, STYLE and VALUE!
Thanks to the top quality of its products and customer services, Zepter has become a part of everyday life for people worldwide with:

• a network of companies in more than 40 countries on five continents
• sales force of more than 120,000
• more than 60 million presentations every year
• over 65 million satisfied customers
• 7 factories, located in Germany, Italy and Switzerland
• more than 300,000 m² of business space

Visit us at www.zepter.com

ZEPTER MEDICAL FOR YOUR HEALTHY LIFE

Zepter Medical’s products and services are shaped to enhance the quality of life and health of entire families. Approved as medical devices and health care products.

Zepter Medical product lines:

BIOPTRON Light Therapy System. Medical devices for wound healing, tissue repair and pain management. It is also used in cosmetic skincare.

VITAL SYSTEM. Electro-devices for a new frontier in the health and beauty fields.

THERAPY AIR. An innovative Air Purifying System, recommended from allergists, to protect your health and improve your well-being. Therapy Air Scentcube is the new way of aromatherapy.

Visit us at www.zepter-medical.com
Years of experience and research have affirmed the positive effects of BIOPTRON Light Therapy and have led to a wide range of applications in numerous fields of medicine. The therapy has become accepted as a new form of treatment in prevention, therapy and rehabilitation worldwide.

The scientific team of BIOPTRON AG is working continuously with experts, researchers and physicians in many countries in order to examine the characteristics and therapeutic effectiveness of BIOPTRON Light Therapy.
Scientific reference list


21) Dinshah, D. Let there be light. NJ USA, ISBN 0-933917-00-7