



Germany, Thailand, Bangladesh, South Korea, Vietnam, Taiwan
Prof. Dr. Michael W. Trogisch
CEO and Founder

BioMed's Treatments

BioMed's Concept of the Integrative Medicine

WE INTEGRATE NEXT GENERATION TREATMENTS & NATURAL REMEDIES TO ENSURE THE BEST POSSIBLE RESULTS

Integrative Medicine originated from the health care practices of European Homeopathy, Traditional Nature Medicine, Anthroposophical Medicine, Traditional Chinese Medicine as well as the ancient medical system of Ayurveda. The Integrative Medicine is a new, modern generation of medical view points. It encompasses conventional medical treatment structures and current research as well as the large know-how content of the traditional naturopathy. The human being as such - understood as an inseparable unit of body, spirit and soul – is placed in the center of all considerations.

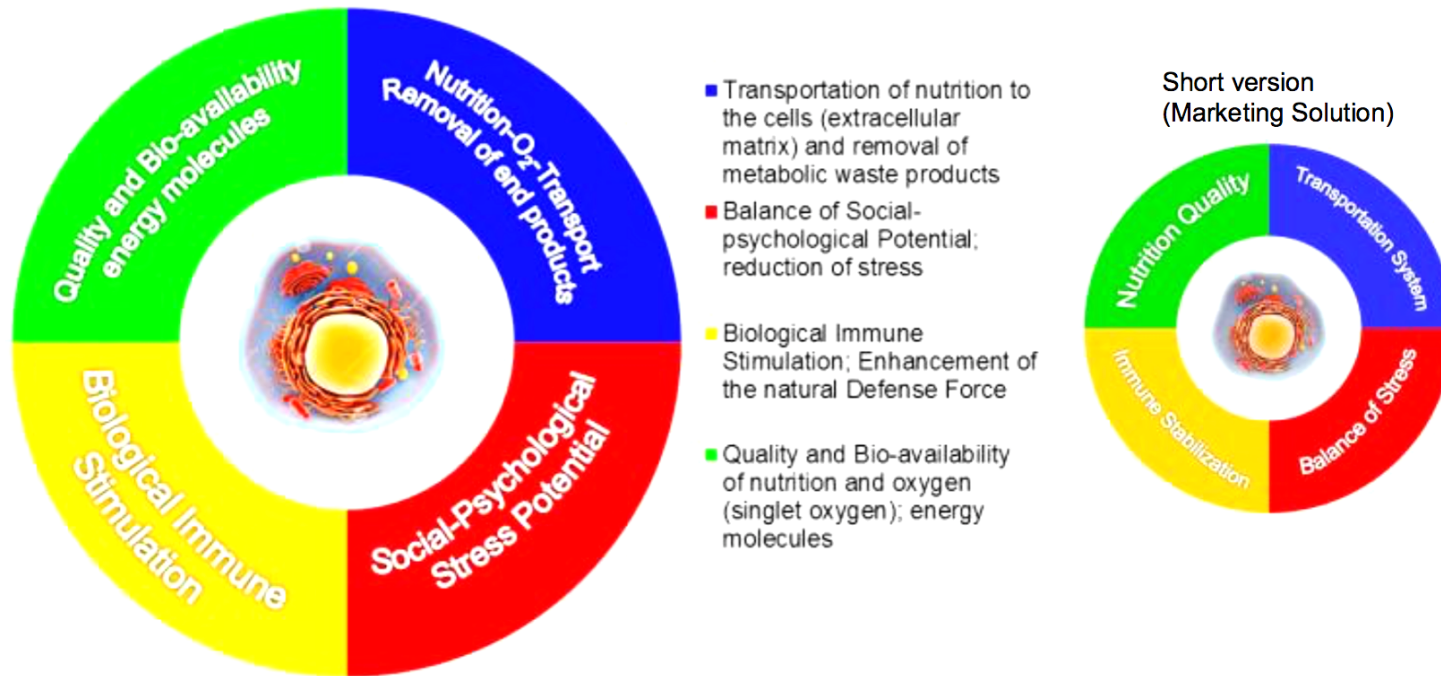
Given the well-recognized pressures of 21st century living, there is an increasing awareness of the environmental and nutritional factors that affect our health. At the BioMed Clinic Bangkok we recognize the importance of these influences and offer the opportunity to explore the role they may play in patient health and well-being. The core of our practice remains strictly evidence-based, and we believe there are clear benefits in bringing together various approaches to health care to reflect the complex needs of our bodies.

Our medical team is led by international experts, who fully embrace this integrated approach. Their professional network allows them to fully utilize the finest specialists and practitioners practicing today and offer their expertise in medical care. This includes our team of resident GPs, working alongside a team of pre-eminent Wellness Consultants and Health Practitioners, in the fields of allergy, environmental and nutritional medicine, cancer therapy, diagnostics, genomics, gynecology (fertility and hormones), bio-identical hormone therapy, dermatology, aesthetics, cardiology, rheu-matology, acupuncture, colonic hydro therapy, nutrition, osteopathy, psychotherapy, and other areas.

Every aspect of your physical, mental, and emotional well-being is cared for as our medical team work in harmony to achieve the perfect program for you.

Humans evolved over a lengthy period of time, spanning millions of years, with few external changes occurring. In today's society, however, external factors have had a sudden drastic impact on the human condition. This has a major effect on human nutrition, as well as bodily activities. There have been significant changes in the environment; the air, water, light, magnetic fields have all changed. Moreover, the social environment and the pressure to achieve also have a decisive influence on our well-being. The consequence is the under-nourishment and disruption of the smallest units of tissue, the cells.

Matrix Circle of Cell Optimization



The solution: Causal therapy is directed to the places where deficits and diseases actually occur (i.e. at the cellular level). As such, our new modular therapy is aimed at providing optimal support to cell tissue, as well as the effective removal of the products of metabolism. The underlying goal of our therapy is to produce an effective combination of methods of treatment. We achieve quantitative evaluation of regeneration and self-healing powers using appropriate measurement techniques.

Chronic Diseases



Information Bio-Physical Therapies



Hippocrates
(2500 years ago):

*Give me the power
to create fever and
I will heal any
kinds of illnesses.*

Heat Therapies (Hyperthermia) – brief Introduction (principles)

During the evolution of vertebrae, from fish to amphibians, from birds to mammals, the development of a warmth organism, or warmth organization can be observed, through which the organism becomes gradually independent from temperatures of the surroundings. In humans, the regulation of body temperature is most developed. Especially in humans, the blood flow through the skin is more developed than in any other mammalian organism, and serves the regulation of body temperature through vasoconstriction and vasodilatation, and through production and perfusion of sweat by the sweat glands. Missing a thick layer of hair (fur), the human body is very open to changes of temperature in the environment.

Therefore, in order to maintain a stable core temperature, the human organism must be able to adjust to changes in temperature quickly, easily and effectively. Isothermia and augmentation of adaptation to changes in temperature are evolutionarily connected with the development of the circadian rhythm of the core temperature. In addition, the exchange of warmth between core temperature and the temperature of the environment, or periphery, or skin is another example for the augmentation of the possibilities to maintain a stable core temperature.

Newborns have not yet developed a functioning circadian rhythm. Only after about 4 weeks, day rhythms start to occur. In adults, the circadian rhythm forms a sinus curve with maxima and minima around 6.00 o'clock a.m. and p.m. The amplitude is usually around 0.6°C. In cancer patients, and patients with other chronic diseases, like chronic viral infections and degenerative diseases, not only the circadian rhythm of the core temperature changes significantly and becomes chaotic, but also the amplitude becomes flat and the delicate interaction between core and peripheral temperatures is disturbed.

In the last two decades of the 20th century, a better understanding of the effects of fever has led to a renewed interest in the immunological effects in acute and chronic diseases. Various organs need a specific temperature to function optimally. The average resting temperature gradient between core temperature and the periphery (skin) is usually from 37°C to 34°C to 25°C at room temperature. The inner organs do not have equal temperatures either. Depending on their metabolic activities and blood perfusion, each inner organ has a different and changing core temperature by itself (kidneys, liver, lungs, testicles, etc.). The only exception might be the mid-brain with its hypothalamus, where functions like breathing, hunger and thirst, sexuality, blood pressure and body temperature are regulated. Here, the core temperature is kept very constant at approximately 37°C. Of all regulatory systems, the warmth regulation is one of the most developed ones, expressing its importance for the overall survival of the individual.

Transpiration is the visible and invisible mechanism of giving off warmth through the skin to the environment. Sweating is the intensified and noticeable form of transpiration. However, transpiration and sweating only leads to cooling if the water can be evaporated. Evaporation is one of the most effective ways to get rid of excessive warmth. Evaporation is stimulated by airflow. If there is no airflow, a thin layer of water (sweat) will cover the skin and evaporation becomes almost impossible. In case of Whole Body hyperthermia, airflow is carefully inhibited, sweating is increased and thus, the loss of warmth is put to a hold and the body temperature rises, producing fever. Peripheral vasodilatation and increased blood flow will bring more blood to the surface (skin) and the warmer the skin, the better the loss of warmth through radiation of infrared waves (5,000 to 20,000nm). High-gloss aluminum folia will reflect these infrared waves and bring about an increase of the body temperature in Whole Body Hyperthermia.

There are several methods to increase the core body temperature, ranging from hot water and paraffin baths, sauna and sauna-alike settings, extra-corporal warming of the blood, high-frequency waves and infrared radiation. In the electro-magnetic spectrum, infrared waves are the first invisible waves next to visible light. The radiation of infrared waves is a characteristic of all bodies above the absolute zero point. In nature, the sun is the most effective source of infrared radiation, supporting all life processes on earth. Most of all, short-wave infrared radiation penetrates through the skin and reaches the blood flow under the skin. Through this mechanism, the local blood temperature is increased, spreading the warmth throughout the body and causing the core temperature to rise.

Systemic Hyperthermia



In this procedure the whole body is softly heated to 38,5°C – 39°C via water-cooled infra-red-A radiation.

In total relaxation, the patient lies on a translucent net and the entire treatment is comparable to a pleasant sauna bath.

Hyperthermia can be used for different diseases as a monotherapy; more frequently, however, hyperthermia is used in combination with other biological procedures. Systemic hyperthermia considerably supports the healing process of the following conditions:

- Rheumatic Diseases, MS, ALS
- Asthma and respiratory diseases
- Muscle spasms and pain
- Blood circulation anomalies
- Diabetes
- Skin diseases and allergies
- Stress
- Burn-out syndrome and fatigue
- Anti-aging and beauty programs
- Cancer

Duration of treatment

A treatment lasts between 60 and 90 minutes. Good results are obtained after 5–10 treatments.

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Local IR-Hyperthermia HYDROSUN

Local Infrared A Irradiation

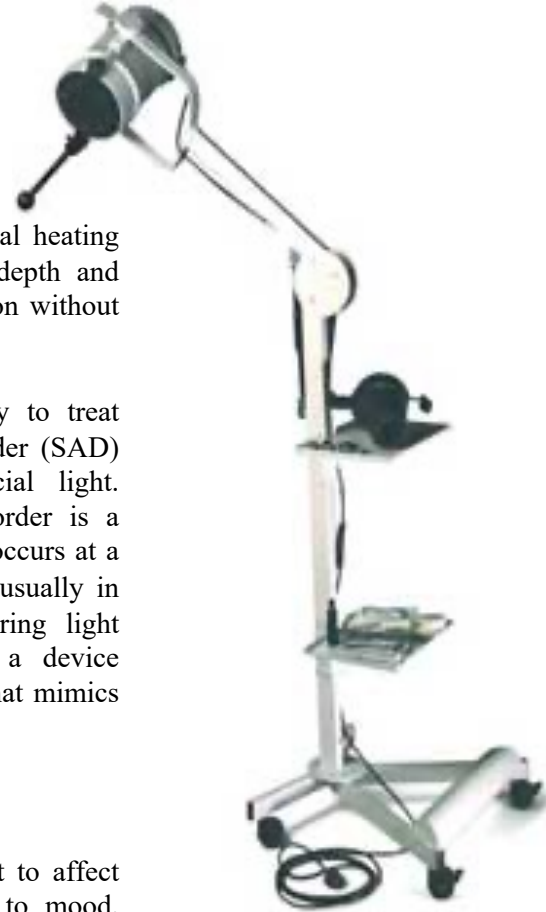
by water filtered infrared light (hyperthermia) - Hydrosun



Hydrosun delivers natural heating with great penetration depth and high intensity of radiation without overheating of the skin.

Light therapy is a way to treat seasonal affective disorder (SAD) by exposure to artificial light. Seasonal affective disorder is a type of depression that occurs at a certain time each year, usually in the fall or winter. During light therapy, you sit near a device giving off bright light that mimics natural outdoor light.

Light therapy is thought to affect brain chemicals linked to mood, easing SAD symptoms. Using a light therapy box may also help with other types of depression, sleep disorders, and other conditions. Light therapy is also known as bright light therapy or phototherapy.

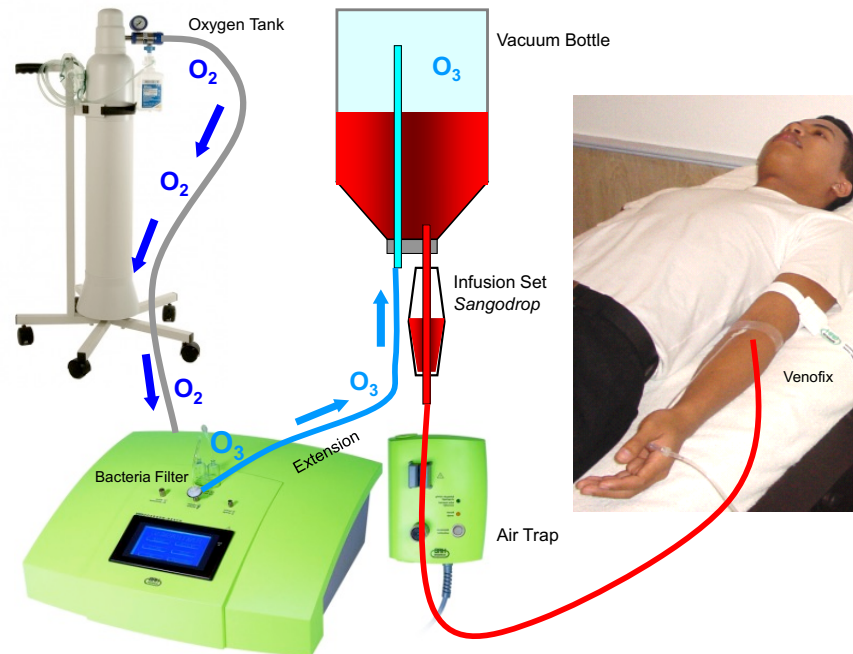


HYDROSUN in field of Breast Cancer and Wound Healing



Ozone (O₃) Therapy

Ozone therapy is a procedure in which the patient's blood is mixed with ozone and oxygen extraneously and subsequently reinfused. The ozone generates a number of effective reactions in the blood – it has been demonstrated scientifically that ozone provides additional oxygen for cell respiration. Furthermore, through catalytic action, ozone develops various substances (e.g. peroxide) which, *inter alia*, restrain tumor growth. The enhanced utilization of oxygen also leads to the elimination of hypoxic pain and performance defects.

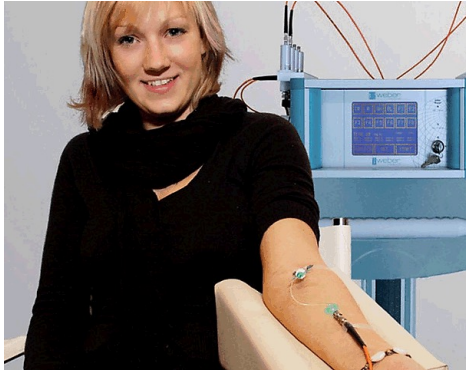


Indications

Thanks to its selective properties, medical ozone is used in three principal fields of indication:

1. The treatment of circulatory disorders, also in the field of geriatrics
2. The treatment of diseases produced by viruses such as liver diseases (hepatitis) and herpes
3. The treatment of infected, badly healing wounds and inflammatory processes, such as for example:
 - a) Open ulcers on the legs (ulcus cruris)
 - b) Inflammatory intestinal conditions (Colitis, Proctitis),
 - c) Burns, scalds and infected wounds, fungus infections and others
4. As an additive or complementary therapy in various types of cancer, ozone is applied for general immunoactivation at low dosages in the form of "major autohemotherapy" (re-infusion) or "minor autohemotherapy" (re-injection) via the intramuscular route.

iv Blood Laser Irradiation



General Effects

- ✓ Stimulation of the immune system and macro-phage activation
- ✓ Significant improvement in overall performance
- ✓ -mprovement in sleep and vigilance
- ✓ Positive effect on the general mood
- ✓ Reduction of drug consumption

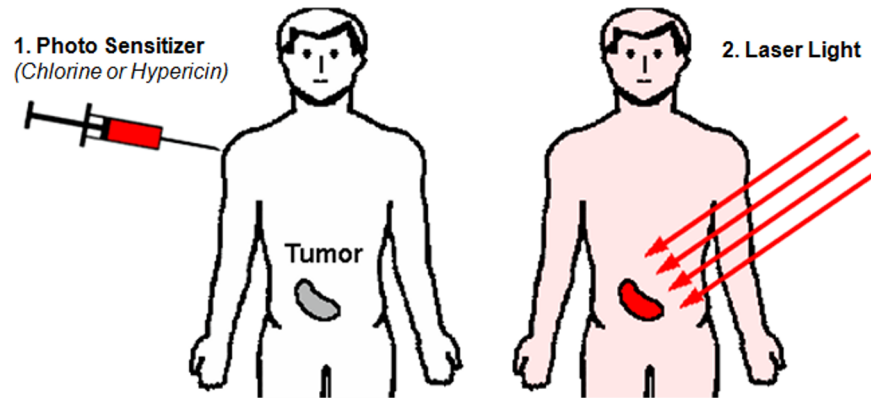
Special Effects

- ✓ Optimization of the diabetic metabolic state
- ✓ Stat incomparable influence of hyper- cholesterolemia
- ✓ Significant reduction of pathologically elevated Liver values
- ✓ Reduction in frequency of relapses in chronic inflammatory bowel disease
- ✓ Improvement in general health status and mobility in MS disease
- ✓ Positive influence on intractable pain syndromes
- ✓ -positive influence of tinnitus
- ✓ -Reduction of antihypertensive medication for severe hypertension
- ✓ -positive influence of maculopathy

Single Indications

- ✓ Photodynamic cancer therapy in combination with different photosensitizers (PDT)
- ✓ Diabetes mellitus
- ✓ Chronic liver, kidney and Lyme disease
- ✓ Dyslipidemia
- ✓ Heart disease
- ✓ Chronic pain syndromes
- ✓ Allergies and eczema
- ✓ Performance enhancement in sport
- ✓ Polyneuropathies
- ✓ Fibromyalgia, Rheumatism
- ✓ Hypertension
- ✓ Tinnitus
- ✓ Macular Degeneration
- ✓ Multiple Sclerosis
- ✓ Depression, Burn-out syndrome, CFS (chronic fatigue syndrome)

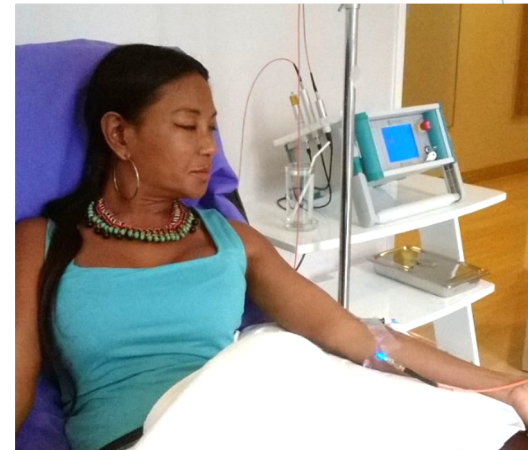
Photo Dynamic Therapy PDT



The presented method and case reports in this publication showed a highly synergistic effect of intravenous laser therapy in combination with photosensitizers. On one hand the intravenous laser kills circulating cancer cells and cancer stem cells and cure concomitant infections and on the other hand the interstitial laser technique enables the therapist to target the tumor directly even in deeper areas of the body where external irradiation is not effective. The key solution is to bring enough photon energy directly in or close to the tumor area for killing cancer cells by oxygen radicals. After treatment of several hundred patients in the last 2 years with different tumors this method has been shown to have an overall efficacy of about 70% and is safe without any severe side effects.

PDT mainly were performed in cancers for lung, head and neck, pancreas, breast and ovarian cancer, also in esophageal and colon cancer using endoscopic technology.

Now cancer patients are normally treated with 3 different photosensitizers: Chlorine E6 with red laser activation, Hypericin with yellow laser and Curcumin with blue laser activation red, yellow and blue laser for optimization of the PDT. Since PDT leads to a specific immunization after necrosis or apoptosis a follow up therapy with the macrophage activating factor GcMAF is recommended. This follow-up immunotherapy will target especially existing or hidden metastases which are not accessible by interstitial PDT.



LED Irradiation - ELBI

Transcutaneous (Epicutaneous) Blood Laser Irradiation



In addition to the invasive method of intravenous laser blood irradiation (IV, LBI) non-invasive **Epicutaneous Laser/LED Blood Irradiation (ELBI)** is also available. This non-invasive and relatively simple method of blood irradiation has been taken into use only after development of bright enough red, blue and infrared LEDs and lasers. It was shown that infrared radiation can go deep enough to reach vessels and irradiate blood. In addition, red laser light can also influence blood in superficial veins. Currently semi-conductor laser diodes with red (630-670nm) or near infrared (800-1300nm) light emission are used to perform epicutaneous Laser/LED therapy.

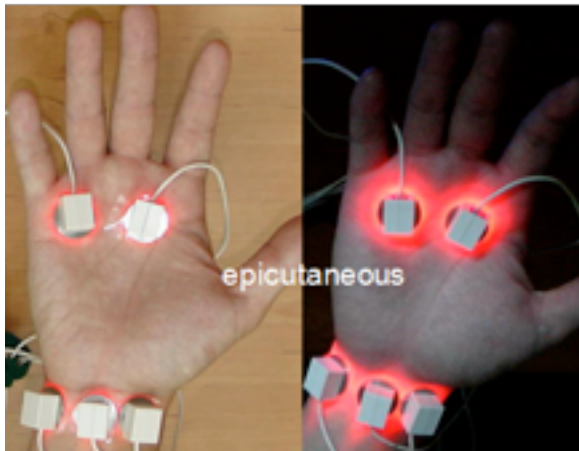
Recent studies suggested that the medical effects of epicutaneous laser are similar or very close to the effects of IV LBI. It is believed that the treatment results of 20mW red laser ELBI are similar to 1mW red laser intravenous blood irradiation.



Laser light is delivered to the skin in the area of a large vein or artery through a special light-guide. Contact of the light-guide with the skin with some pressure can increase penetration of the light. The biggest advantage of ELBI is that this method of blood irradiation is painless. Another important issue is that the need for intravenous injection is completely eliminated. This is why ELBI has the greatest advantage for the treatment of children or patients with bad vessel conditions (small or difficult to find deep veins).

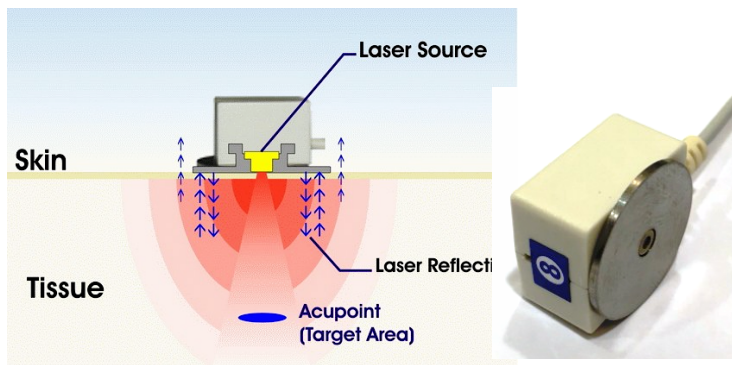
Blood Laser Irradiation

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The first manufacturer to produce a taping laser head with patents: the applications of taping laser in Laser Acupuncture Therapy, Trigger Point Therapy have been regarded as the most effective method of LLLT (Low Level Laser Therapy) at present by master experts, and will surely replace some applications of laser probes.

Oxygen Multistep Therapy



The causes of many diseases will be eliminated because bad oxygen utilization weakens cells and allows a dangerous concentration of the so-called “free radicals”.

The activated oxygen is inhaled through a nasal tube and the patient feels no discomfort.

Duration of the treatment

A treatment lasts between 20 and 30 minutes. Good results will be obtained after 10 treatments.

Oxygen Multistep Therapy can be used as a monotherapy, but is more effective when used in conjunction with other biological procedures such as hyperthermia and magnetic wave therapy.

Oxygen supports healing in the following conditions:

- High blood pressure
- Asthma, respiratory tract diseases
- Muscle spasms and pain
- Blood circulation anomalies
- Diabetes
- Skin diseases and allergies
- Visual anomalies
- Cancer

Sitting Type Portable Hyperbaric Oxygen Chamber



Hyperbaric oxygen therapy (HBOT) is a medical treatment which enhances the body's natural healing process by inhalation of 100% oxygen in a total body chamber, where atmospheric pressure is increased and controlled. It is used for a wide variety of treatments usually as a part of an overall medical care plan. Under normal circumstances, oxygen is transported throughout the body only by red blood cells. With HBOT, oxygen is dissolved into all of the body's fluids, the plasma, the central nervous system fluids, the lymph, and the bone and can be carried to areas where circulation is diminished or blocked. In this way, extra oxygen can reach all of the damaged tissues and the body can support its own healing process. The increased oxygen greatly enhances the ability of white blood cells to kill bacteria, reduces swelling and allows new blood vessels to grow more rapidly into the affected areas. It is a simple, non-invasive and painless treatment.

Hyperbaric Oxygen Therapy

Hyperbaric oxygen therapy involves breathing pure oxygen in a pressurized environment. Hyperbaric oxygen therapy is a well-established treatment for decompression sickness, a potential risk of scuba diving. Other conditions treated with hyperbaric oxygen therapy include serious infections, bubbles of air in your blood vessels, and wounds that may not heal as a result of diabetes or radiation injury.

In a hyperbaric oxygen therapy chamber, the air pressure is increased two to three times higher than normal air pressure. Under these conditions, your lungs can gather much more oxygen than would be possible breathing pure oxygen at normal air pressure.

When your blood carries this extra oxygen throughout your body, this helps fight bacteria and stimulate the release of substances called growth factors and stem cells, which promote healing. Your body's tissues need an adequate supply of oxygen to function. When tissue is injured, it requires even more oxygen to survive. Hyperbaric oxygen therapy increases the amount of oxygen your blood can carry. With repeated scheduled treatments, the temporary extra high oxygen levels encourage normal tissue oxygen levels, even after the therapy is completed.

Hyperbaric oxygen therapy is used to treat several medical conditions. And medical institutions use it in different ways. We suggest hyperbaric oxygen therapy if you have one of the following conditions:

- Severe anemia
- Brain abscess
- Bubbles of air in your blood vessels (arterial gas embolism)
- Burns
- Carbon monoxide poisoning
- Crushing injury
- Deafness, sudden
- Decompression sickness
- Gangrene, open wounds (especially poorly healing wounds)
- Infection of skin or bone that causes tissue death
- Nonhealing wounds, such as a diabetic foot ulcer
- Radiation injury
- Skin graft or skin flap at risk of tissue death
- Traumatic brain injury
- Vision loss, sudden and painless

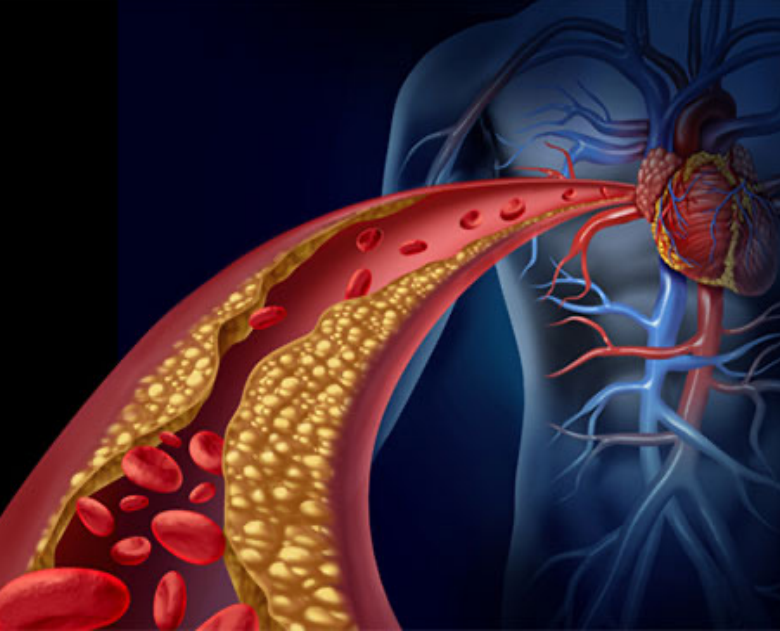
Oxygenation Therapy



Prof. Dr. med. Regelsberger (neurologist/ neurosurgeon from Detmold) has done intensive research on intravenous application of minute amounts of oxygen and has been able to determine its therapeutic effect. Thus, it became his great desire to standardize the implementation of this particular application with its sophisticated device. We have been developing and manufacturing medical devices ever since. They apply safe and exact amounts of oxygen into the veins.

Application methods have been developed in continuous stages to make the safety related highly sophisticated oxygen-application device available. Applimed-O₂ 1000 controls the exact and reliable application of medical oxygen in the intravenous method in a dosage in a range between 1 to 2ml/min. Oxygen is a very important component in complementary medicine. Oxygen leads to the intensified formation of the blood flow and antithrombotic hormone Prostacyclin. It is formed in the lung endothelium. Result is a strong vascular dilation in the complete body structure (an average increase of Prostacycline of more than 800%; according to an article written by Prof. Dr. J.C. Frölich - Hannover Medical School).

An eosinophilia is initiated by applying oxygen. The eosinophilic granulocytes are capable of forming the 15-lipoxygenase-1, with oxygen release from the arachidonic acid cascade. The leukotriene synthesis is being blocked by this process. The anti-inflammatory effect has been confirmed by the work of Prof. Dr. sc. Med. Hartmut Kühn - Charite Berlin.



Therapeutic Apheresis



The Problematic

Health and good appearance inseparably belong together, and on the other hand health is primarily bound to the disposal of much roughage, which we constantly produce in our body.

Therefore Detoxification (decontamination) became an important topic in the medicine, but increasingly also in the Spa and beauty area.

Through research we know that the decontamination of the cell matrix represents a pre-condition for health, well-being and fitness, however in the long run a condition for a good appearance.

At first all toxic substances are collected in the blood, which are transported outwards in different ways, through liver, kidneys, skin and lung. Due to our changed way of life (too little exercises, not always the correct food, stress and environmental impacts) our body is overloaded with this important drainage works; it comes to malfunctioning. Therefore the roughage and toxic substances are frequently stored in muscles, the skin and many regions of our body, which leads to indisposition, poor motivation, skin and hair problems, cellulites and in the long run to many durable illnesses.

The Solution

Now we have a new procedure for you by relieving your blood and many parts of your body from such toxic substances and roughage completely - **Therapeutic Aphaeresis**.

Apart from this intensive blood purification process it is now possible to eliminate exactly those intruders (bacteria, viruses, fungus) which are involved in many different illnesses. In this way many diseases lose its ground and the body can regenerate fast. The Aphaeresis has a direct effect on the appearance of your body, you feel fit and your skin looks younger and fresher.

Stem cells

With our Apheresis technology we are able to extract your own stem cells from your blood which - when desired- we prepare and keep ready for emergencies. In addition to that, when given high-dose chemo and radiotherapies stem cells for example are important for survival; they also can be used preventively as well as excellently for the improvement of your outfit.

Oxythermia

An additional possibility to improve the decontamination of the body results in warming up the tissue. With special treatment devices it is possible to reach into deep regions of the body - also into deep regions of the face.

The warmth produces various reactions: At first the temperature of the outer skin is adapted to the normal body's interior temperature. This produces a deep relaxation of the musculature, increases mildly the metabolism in the cells and intensively supplies the tissue with nutrients.

During further rise of the temperature it comes to the desired effects, i.e. an increase of the blood circulation in large parts of the tissue. The increase of the blood circulation improves the transport of oxygen and the transportation of metabolic products. That means an acceleration of all metabolic courses and thus the support of the recovery processes. Besides this the warmth improves the membrane ability of the cell diaphragm for nutrients and roughage.

Colon Hydro Therapy



Colon Hydro Therapy is used for:

- Constipation,
- Flatulence
- Diarrhea
- Allergies
- Acute stool blockage
- Parasitical infection
- Colon cleansing
- Dermatitis (skin disease)
- Intestinal reorganization

Using water kept at a moderate temperature or other therapeutic liquids (e.g. herbal essences, coffee, ozone-treated water) a soft infusion is made into the large intestine. Serving as a rinse, this water and any intestinal feces are flushed out simultaneously through a hose system. The whole procedure is completely hygienic and odorless.

The constant change between internal pressure in the bowel and immediate flushing dislodges persistent deposits and adherents.

Duration of the treatment

A treatment lasts between 30 and 40 minutes. Good results will be obtained after 10 treatments.

Colon cleansing can be used as a monotherapy but is more effective when used in conjunction with other biological procedures.

Micro Current Therapy



MCT works because of its ability to stimulate cellular physiology and growth. One classic study showed that it could increase ATP generation by almost 500%. Increasing the current actually decreased the results. This study also demonstrated its ability to enhance amino acid transport and protein synthesis. One can see an illustration of the true therapeutic effect of MCT through the mechanism in which trauma affects the electrical potential of damaged cells. The injured area has a higher electrical resistance than the surrounding tissue. This results in decreased electrical conductance through the injured area and decreased cellular capacitance, leading to impairment of the healing process and inflammation.

Correct application of MCT to an injured site augments the endogenous current flow, allowing cells in the traumatized area to regain their capacitance. Resistance is reduced, allowing bioelectricity to flow through and reestablish homeostasis. This process helps to initiate and perpetuate the many biochemical reactions that occur in healing. Muscular spasm, occurring as a reaction to trauma, causes reduction in blood supply, resulting in local hypoxia, accumulation of noxious metabolites, and pain. This, in turn, leads to reduction of ATP synthesis. Thus, MCT stimulation results in replenishment of ATP.

Information BioMed's Biological Immune Therapies



- Stem Cell Therapy
- Intravenous Nutritional Therapy
- PRP - Platelet-Rich (or thrombocyte-rich) Plasma
- (Modern) Xenogenic Cell Therapy
- Hormone Replacement Therapy

STEM CELL THERAPY

Stem cell therapy is a modern and highly effective form of treatment using the body's own stem cells. Through targeted use, it supports cell renewal and leads the entire organism to comprehensive regeneration. Stem cell therapy is one of the most effective forms of treatment for sustainable and measurable regeneration using the body's own resources. Our portfolio is comprised of various forms of stem cell therapy using the body's own stem cells, which are taken from venous blood or from adipose tissue. In the field of modern medicine, these therapeutic methods are seen in the as core forms of treatment in the areas of regeneration, antiaging, and preventative medicine. A single implementation of stem cells is normally sufficient and effects are optimized through a combination with further, additional forms of regenerative therapy.

BENEFICIAL EFFECTS

The field of vital- and regenerative medicine using stem cells functions at a systemic level and repairs/rejuvenates personal physical weaknesses and aesthetic deficiencies. The effects can be felt on many different levels: energy and vitality increase, the skin's structure is improved and it has a fresher, more youthful appearance, impeded bodily functions such as the immune system, digestion and circulation receive new impulses and resume operating at Intelligent levels, while high blood pressure and acid-base levels are normalized. Sleep quality is increased and mobility in joints improved. In brief: a measurable increase in health and well-being, energy, vitality and the quality of life.

- Cell regeneration
- Skin regeneration and improved tone
- Regulation of the metabolic process
- Improved quality of sleep
- Improved digestion
- Increased circulation in hands and feet
- Blood pressure is regulated
- The immune system is strengthened
- Improved joint mobility
- Higher energy levels
- Youthfulness and vitality

Specification

Research into treatments using Mesenchymal Stem Cell (MSCs) is progressing very rapidly. In principle, these cells are able to generate several tissues and organs including osteoblasts, chondrocytes, myocytes, adipocytes, neurons, hepatocytes and several other cell lineages. The capacity of these cells to proliferate and differentiate is decreasing with the age of the donor and the time in the cultures. It has also been shown that human MSC exerts immune-modulatory function. MSCs are considered to be immunologically privileged. They also exhibit immune-suppressive effect and make them a promising strategy in the treatment of immune mediated disorders as well as in regenerative medicine. We have investigated the different characteristics and properties of MSCs derived from bone marrow, umbilical cord tissue, dental pulp and adipose tissues. There are some similarities and differences in many aspects among these different sources of MSCs. Another area of some interest is the possibility that many of the effects attributed to stem cell therapy are in fact mediated through the direct effect of chaperone proteins on the target tissues. This paracrine effect delivers these essential intracellular functional proteins to the target tissue where the chaperone proteins act directly on refolding key intracellular proteins and effecting protein homeostasis within the cell. Our group is part of the International Chaperone Protein Research Initiative (ICPRI) which has been researching these novel proteins and their effects on cellular repair, regeneration and alleviation of some specific disease states. In particular we have demonstrated a direct role in chaperone protein therapy for the reversal of apoptosis and repair of renal function.

ANTIAGING MEDICINE'S SECRET WEAPON

Our modern lifestyle, laden with stress, poor nutritional habits, and too little exercise as well as genetic predisposition and the normal aging process are responsible for weak points which may appear in the body over the course of a lifetime. We feel fatigued and depleted of energy, skin becomes sallow, hair becomes thinner, individual organs cease to function properly and may cause pain or discomfort. A vital- and regenerative medical treatment with stem cells at the Center for Regenerative Medicine and Stem Cell Therapy is the most effective form of healing using endogenous resources. Its goal is to enable damaged tissue and systems to repair and heal themselves without the introduction of foreign substances. Scientific research has proven that highly viable stem cells can be found in great numbers in adipose tissue. Treatment with stem cells taken from adipose tissue results in a systematic regeneration of damaged cell structures in the skin, connective tissue, organs, muscles, tendons, and nerves. Targeted treatment with stem cells cannot stop the normal aging process, but it can slow this process significantly. For this reason, treatment with stem cells is seen as a secret weapon within the field of modern antiaging medicine.

COMPLEMENTATION AND OPTIMIZATION

The effects of the vital- and regenerative medical treatment with stem cells are optimized through additional, highly effective therapy focused on regeneration and rejuvenation. Our experts for Vital- and Regenerative Medicine, Diagnostics and Preventative Medicine create an individually-tailored course of therapy taken from our further focal areas including medical detox, immunity modulation cell renewal. A final status report, including personal care recommendations, rounds out the lasting and sustainable effects of this treatment, leading to improved health, energy levels and quality of life.

PLATELET RICH PLASMA (PRP)

PRP (platelet-rich or thrombocyte-rich plasma) is a modern therapy approach for strengthening autologous cell regeneration and activating the body's own growth factors, cytokines and stem cells. The autogenous treatment has analgesic, anti-inflammatory and wound-healing accelerating effects, is versatile and can be used in orthopedics (osteoarthritis, bone regeneration), sports medicine (tendinopathies, fractures, tissue repair) and aesthetic medicine (skin rejuvenation, hair loss). The whole procedure takes no longer than 20 minutes. There are no risks or side effects for the patient.

Our blood is made up of 93% red blood cells, 6% white blood cells, 1% platelets and plasma. Platelets are best known for their function of blood-clotting to stop bleeding. Platelets, however, are much more significant than this, as human platelets are also a critical component in injury healing. Platelets are naturally extremely rich in the connective tissue growth and healing factors. The body's first response to tissue injury is to deliver platelets to the area. Platelets initiate repair and attract stem cells to the injury. Injecting these growth factors into damaged ligaments, tendons, and joints stimulates the natural repair process. In order to maximize the healing process, the platelets must be concentrated and separated from the red blood cells. The goal of PRP is to maximize the number of platelets while minimizing the number of red blood cells in a solution that is injected into the injured or pained area(s). In summary, PRP creates, stimulates, and accelerates the body's natural healing process.

PRP treatment works most effectively for chronic ligament and tendon sprains/strains that have failed other conservative treatment, including but not limited to:

- Lumbar spine disc pain
- Rotator cuff injuries, including partial-thickness
- Shoulder pain and instability
- Tennis and golfer's elbow
- Hamstring and hip strains
- Knee sprains and instability
- Patellofemoral syndrome and patellar tendonitis
- Ankle sprains
- Achilles tendonitis & plantar fasciitis
- Knee, hip, and other joint osteoarthritis
- Nerve entrapment syndromes, such as

Additionally, PRP can be effective for many cases of osteoarthritis by stimulating healing of cartilage and reducing pain and disability. This includes: Knee arthritis, Hip joint arthritis, Shoulder arthritis, Ankle arthritis.

Creation of PRP is simple, painless, and conveniently done at an office visit. The entire process of drawing blood to solution preparation only takes approximately 25 - 30 minutes. A small amount of blood is drawn from the patient, just like a routine blood test. Once the blood is drawn it is then placed into a centrifuge. The centrifuge is a machine that spins the blood at high speeds in order to separate the blood into red blood cells and concentrated platelets. Once the blood is separated the red blood cells are discarded, and we are left with concentrated platelet rich plasma (PRP) which is ready to be used in the treatment process.

The injection process does not take more than an hour, which includes the creation of the PRP as explained above. The platelet-rich portion is collected and injected back into the injured tendon, ligament, muscle, joint, or disc that has been determined to be a source of pain and is not-healing appropriately. When structures around the spine are being injected, x-ray (i.e. fluoroscopy) guidance is used to assure safe and proper placement of PRP at the affected site. In the extremities, ultrasound-guidance is commonly used to inject PRP into the appropriate tendon, ligament or joint that is being targeted. Injections are performed under image guidance to assure precise placement of PRP. The number of injections varies based on each patient's individualized condition but typically range anywhere from two to six injections done over time. Patients typically experience significant reduction in pain after the first or second injection.

Hormone Replacement Therapy (HRT)

HRT is any form of hormone therapy wherein the patient, in the course of medical treatment, receives hormones, either to supplement a lack of naturally occurring hormones or to substitute other hormones for naturally occurring hormones. Common forms of hormone replacement therapy include:

- Hormone replacement therapy for menopause is based on the idea that the treatment may prevent discomfort caused by diminished circulating estrogen and progesterone hormones, or in the case of the surgically or prematurely menopausal, that it may prolong life and may reduce incidence of dementia. It involves the use of one or more of a group of medications designed to artificially boost hormone levels. The main types of hormones involved are estrogens, progesterone, or progestins, and sometimes, testosterone. It is often referred to as "treatment" rather than therapy.
- Androgen replacement therapy (andropausal and ergogenic use) is a hormone treatment often prescribed to counter the effects of male hypogonadism. It is also prescribed to lessen the effects or delay the onset of normal male aging. Additionally, androgen replacement therapy is used for men who have lost their testicular function to disease, cancer, or other causes.
- Hormone replacement therapy for transgender people introduces hormones associated with the gender that the patient identifies with (notably testosterone for trans men and estrogen for trans women). Some intersex people may also receive HRT. Cross-sex hormone treatment for transgender individuals is divided into two main types: hormone replacement therapy (female-to-male) and hormone replacement therapy (male-to-female).

THE HJEALTH CLUB Bangkok has developed a hormone program aimed at controlling and balancing hormone levels vital to maintaining physical and mental efficiency. The hormone replacement therapies (HRT) at THE BioMed use only bioidentical hormones, which are synthesized to be identical to the indigenous hormones of the human body. With close follow-up examinations and individualized hormone control, our hormone replacement therapies are of the highest standards of safety and effectiveness.

Intravenous Nutritional Therapy

Intravenous (IV) nutritional therapy administers vitamins, minerals, amino acids, and other nutrients directly into the bloodstream. The IV route allows for a higher concentration of nutrients to be delivered to the tissues than does oral supplementation (the majority of dietary vitamin and mineral oral supplementation is not well absorbed by the digestive system, resulting in unknown deficiencies that can affect our life quality). A small intravenous catheter is temporarily placed into the vein, which sends nutrients directly to where they are needed.

Vitamins, minerals, amino acids, and other nutrients can produce potent drug-like effects when administered through an IV, but without the side effects of prescription medicine. IV therapy can be used to obtain immediate results or it can be spread out in several programs for long-term results.

The success rate of IV nutritional therapy can be measured in terms of the overall health of the patient. This treatment has been shown to be a preventive aging measure since it has the ability to optimize the nutritional makeup of cells and enhance metabolism.

Other benefits include:

- Increased libido & energy
- Enhanced mind and sense of well-being
- Improved fat loss & sports performance
- Improved healing and recovery post-exertion or damage (e.g. exercise, surgery, a night out)
- Boosted immune function
- Decreased stress & anxiety relief
- Detoxification and improved beauty

Many of these benefits are seen within hours of receiving the treatment. Some chronic conditions require numerous sessions in order to achieve sustainable benefits.

Many of these benefits are seen within hours of receiving the treatment. Some chronic conditions, however, require numerous sessions in order to maintain the benefits.

IV therapy is particularly beneficial since the majority of dietary vitamin and mineral oral supplementation is not well absorbed by the digestive system. This poor absorption results in unknown deficiencies and health-related issues that can affect our life quality. With IV therapy, however, high doses of nutrients can be safely introduced into the body. The IV route allows for a higher concentration of nutrients to be delivered to the tissues than does oral supplementation, thus obtaining powerful results.

Traditional Thai Medicine meets German High Tech Medicine



BioMed's own iv production

BioMed Laboratories



Germany



German Producer

Michael W. Trogisch,
Prof. Dr. (MD, PhD)

- Registered MD and leader of
the BioMed medical iv-
production in Germany -

Our medical
production is
exclusive for Asia
and Australia



Development of strict security protocols



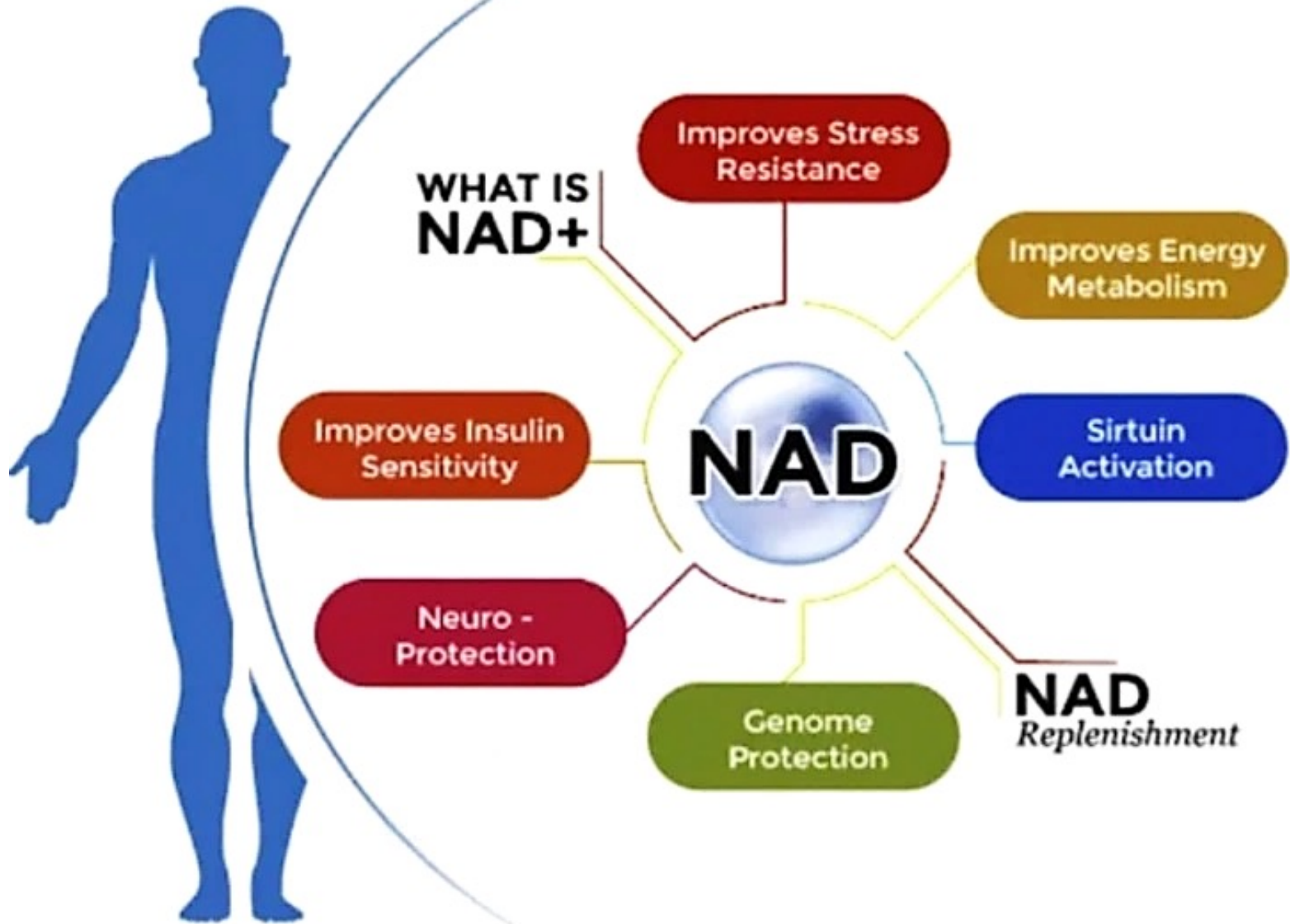


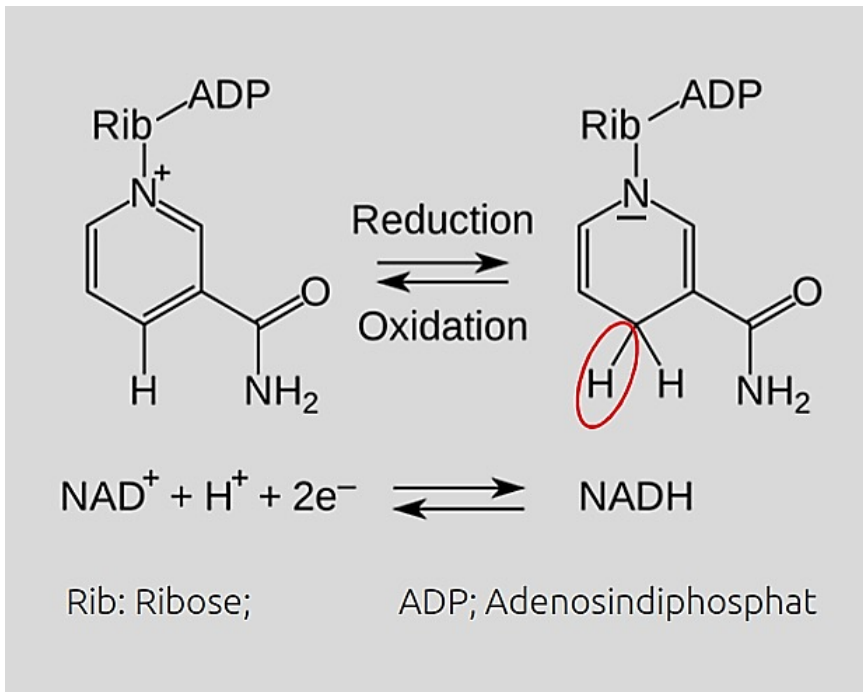
... for highest level of R&D: such as new products, new formulars, tests, trials



**... for a professional
procedure of the end
products**

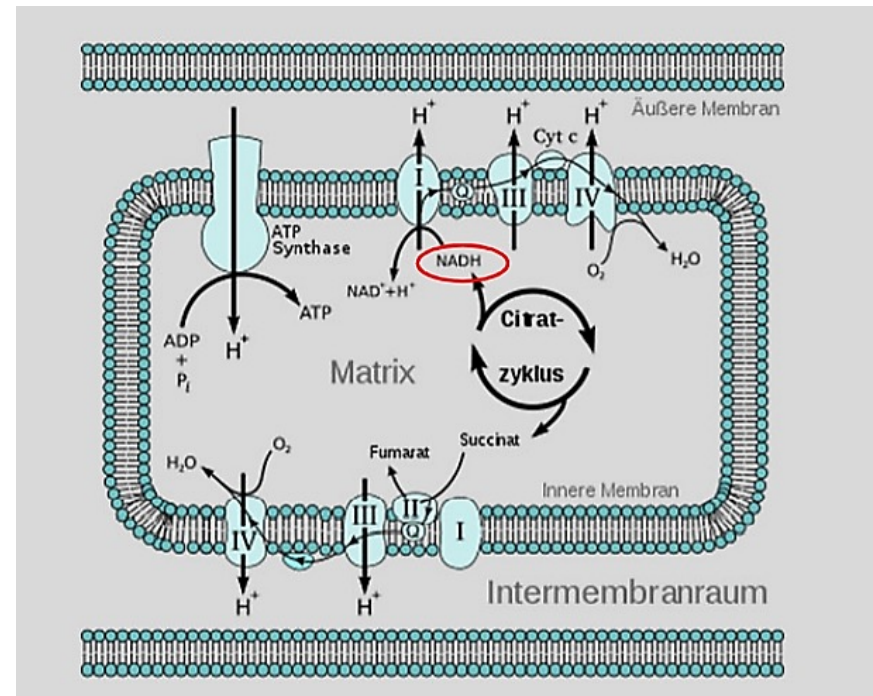
1. NAD+(H) - Nicotinamide Adenine Dinucleotide (H for Hydrogen)





- NAD⁺ and NADH are the oxidized and reduced forms of the same substance.
- Through the property of absorbing electrical charges and to release it again,
- **NAD + / NADH is also called “battery of the cell”.**

- In the mitochondria, NAD + is reduced to NADH in the reactions of the citrate cycle.
- In the respiratory chain of the mitochondria, NADH is under Consumption of oxygen is oxidized to NAD +.
- The energy of this reaction is used to form ATP which is used as the central energy source of the cell acts.



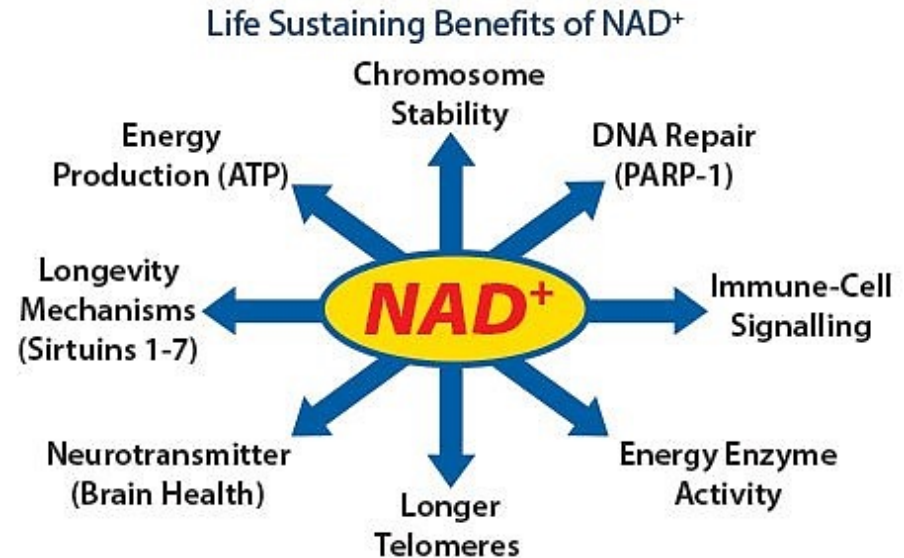
NADH / NAD+

Nicotinamide adenine dinucleotide (NAD⁺) is an essential cofactor in all living cells that is involved in fundamental biological processes and is essential component of energy production (mitochondrial function):

- DNA repair
- Cell repair
- Turns Genes on and off
- Maintains neurotransmitter levels
- Communication of cells
- ATP production in cells.

Benefits for Metabolic Functions

- Increases energy levels
- Decreases fatigue
- Restores muscle function and athletic performance
- Improves metabolism
- Helps Weight loss
- Helps Glucose levels



- Improves brain health and neurological function Improves mental clarity
- Improves brain regeneration
- Improves focus and concentration
- Boosts mood
- Improves memory

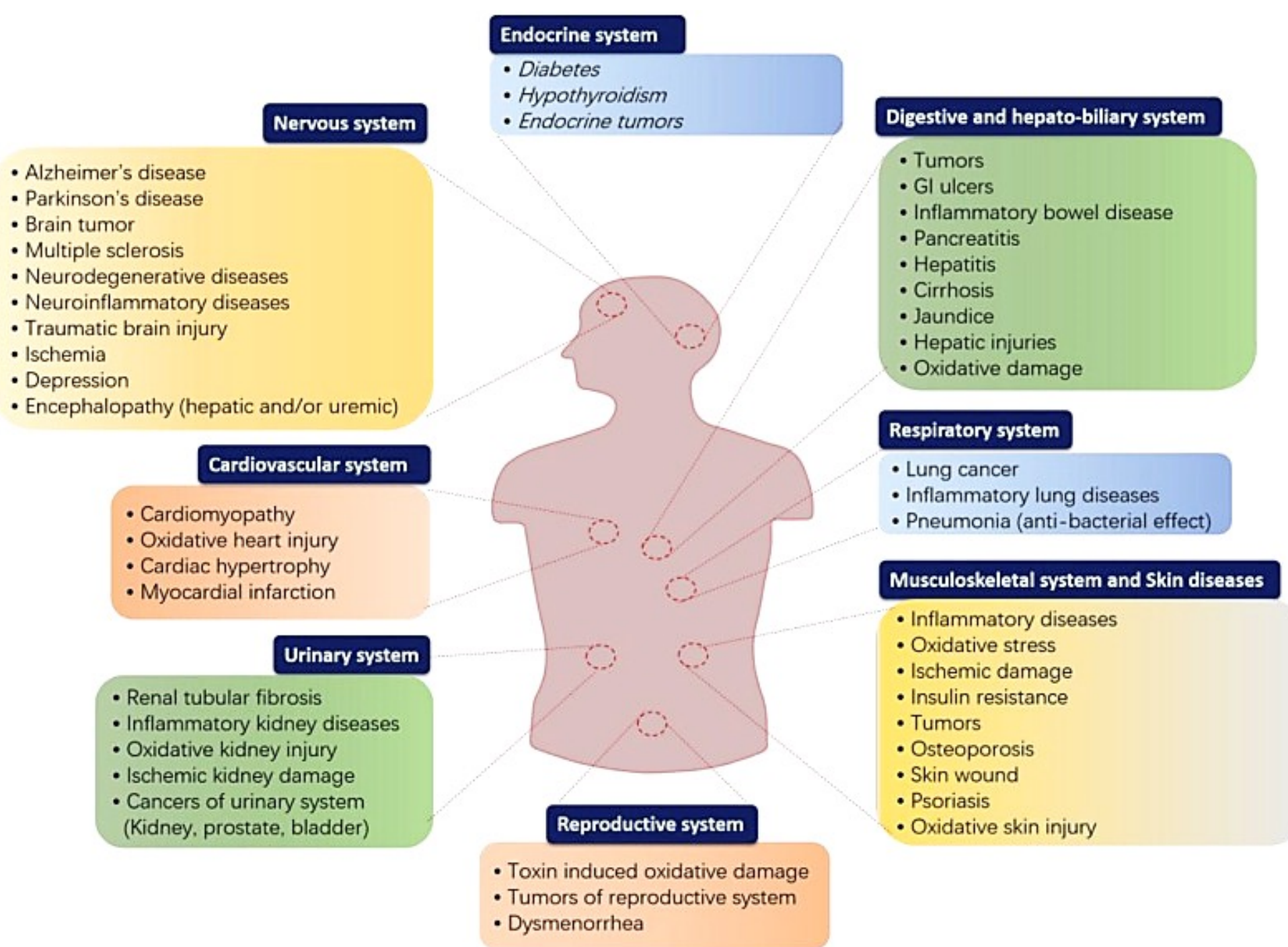
2. – 4. Curcumin



for oral and intravenous use

Curcumin in general

Also called turmeric, is an intense yellow orange spice in Indian curry mixtures. Preferably in high dosage, it can be used for any cancer form both preventively and therapeutically. In India, turmeric is traditionally present in the nutrition chain and the disease rate of breast, prostate, colorectal and lung cancer is ten times lower than in the United States. Many experts attribute this fact to the Curcumin. There are about 3,000 studies demonstrating the effect of Curcumin on cancer. The German Society of Oncology, as well as those in Austria and the United States are in favor of the use of curcumin as a therapy support. In biological cancer therapy, curcumin is no longer a secret weapon: it can be used in multiple ways to fight cancer without side effects. Curcumin acts against cancer via various mechanisms: It stimulates the immune system and inhibits the formation and spread of metastases (proliferation) at the genetic level. Curcumin activates genes involved in apoptosis (cell death) and has anti-angiogenic effects. Curcumin infusions prevent the development of blood vessels in the tumour tissue. With its immune stimulating properties, it is due that curcumin has the ability to fight potentially cancer-causing free radicals. Latest research points to an amazing connection between Curcumin and the reproduction of an antimicrobial protein in the human immune system. The secondary plant material weakens the cell membranes of cancer cells, making them more vulnerable to the immune system. For biological cancer therapies, chemo or radiation therapy, it counteracts infections as it disables the protein NF-kB. Our doctors and therapists at the BioMed Clinics use Curcumin as an infusion in addition to the Biological therapy of cancer. Since we can introduce high curcumin doses directly – i.e. without passage through the digestive tract – into the body, we achieve a significantly higher therapeutic effect than a conventional oral intake. Curcumin infusions should be made only under the supervision of an experienced therapist in the framework of a holistic therapy program, which includes an in-depth laboratory diagnostic. Dosage is according to a patient's weight and our patients receive curcumin via an infusion protocol. The treatment at BioMed Clinic Group is embedded in a therapy concept that is individually tailored to each patient



2. Curcumin iv (4 Curcuminoids: Curcumin Diferuloylmethan (80%), Demethoxycurcumin (15%), Bis-Demethoxycurcumin (4.5%), Cyclocurcumin (0.5%))

1. Controlled biological (organic) cultivation of the plant materials (absolute organic cultivation)

2. Careful preparation and extraction (under lab & clean room conditions)

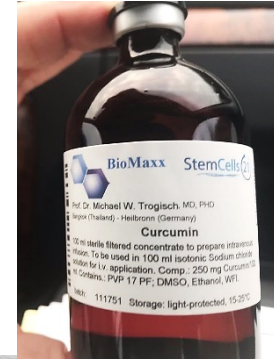
3./4. Preparation of infusible solutions (under lab & clean room conditions)



1. Plant Cultivation



2. Extraction



3. Lab Preparation

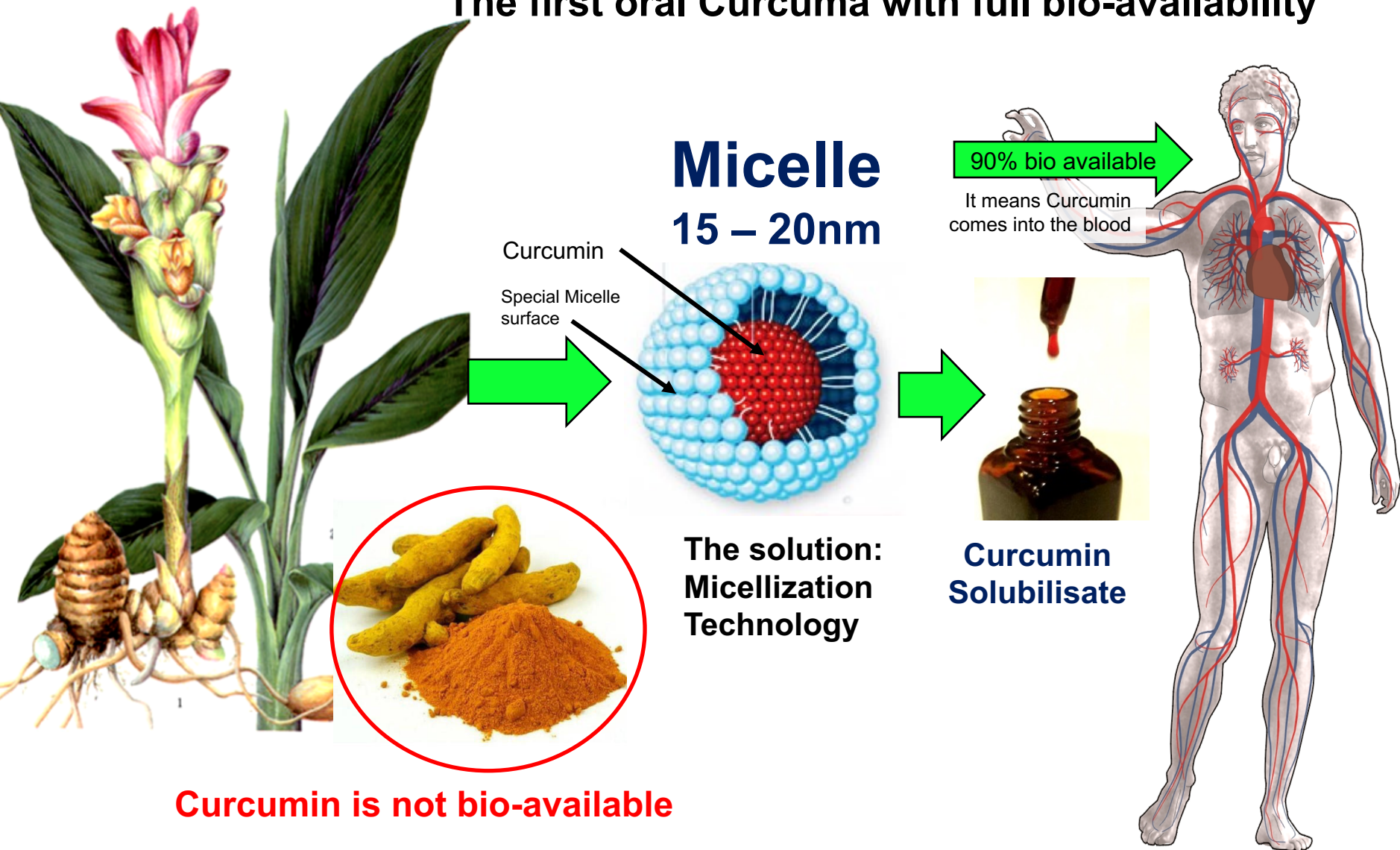


4. IV-treatment

highest medical quality

4. Oral Curcumin Solubilisate

The first oral Curcuma with full bio-availability



Curcumin is not bio-available

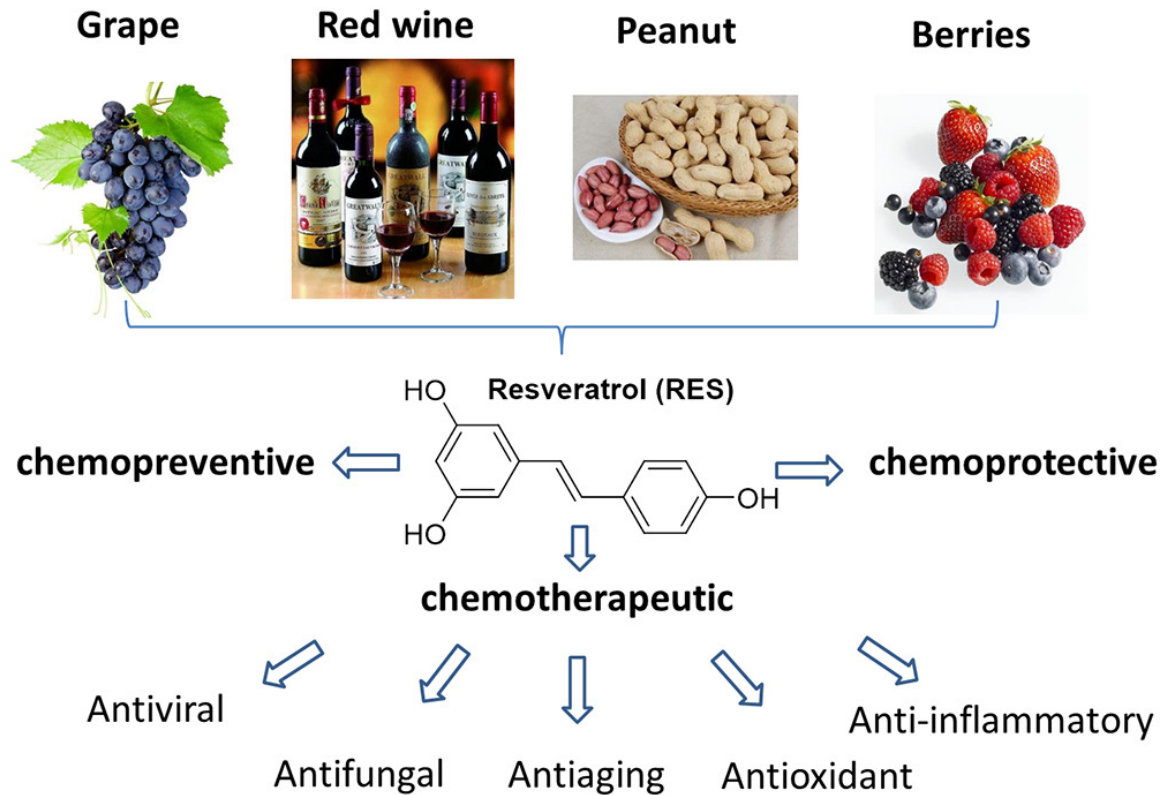
Micelle Solubilisate > 90% Bio-Availability

5. Resveratrol

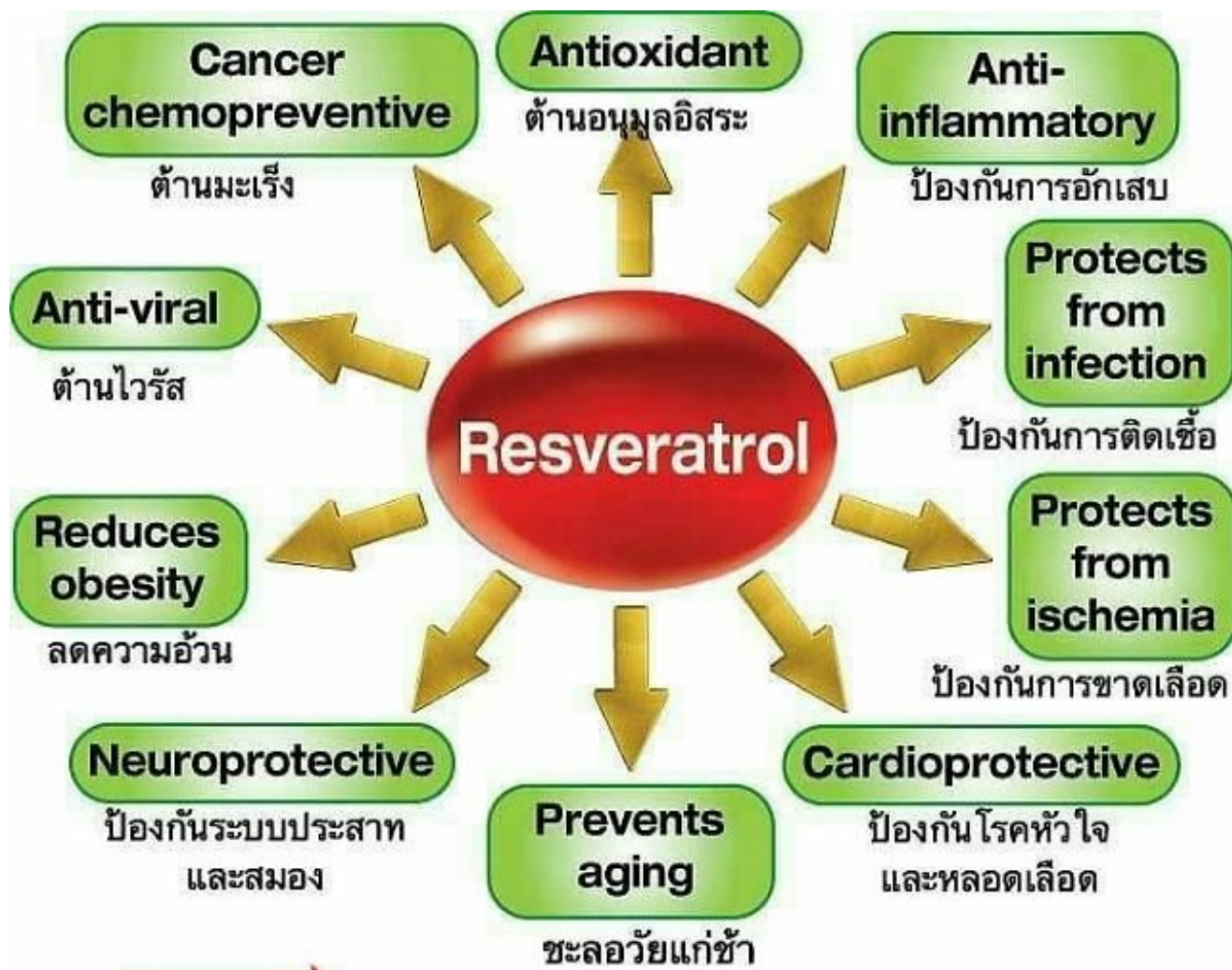
- Resveratrol is a phytoalexin, a class of compounds produced by many plants when they are infected by pathogens or physically harmed by cutting, crushing, or ultraviolet radiation. Plants that synthesize resveratrol include knotweeds, pine trees including Scots pine and Eastern white pine, grape vines, peanut plants, cocoa bushes, and *Vaccinium* shrubs

that produce berries, including blueberries, raspberries, mulberries, cranberries, and bilberries.

- Resveratrol is a polyphenol naturally found in the skin of red grapes, certain berries, and other plants. Recent research has shown that Resveratrol can help to support healthy cardiovascular function.
- Resveratrol is best known for its cellular anti-aging properties, as well as for its ability to promote a healthy response to biological stress. Directions Suggested Usage: 3 x per week infusion.
- BioMed's iv product has a Mega Potency for cardiovascular support.



Summary Resveratrol Effects



Health benefits of resveratrol.
ประโยชน์จากเรสเวอราทรอลที่ได้กับสุขภาพ

6. Vitamin C (IV high doses)

special cold filtered sterilization

Studies have shown that vitamin C can increase both the production and function of white blood cells, which are essential for optimal immune function. Therefore, high-dose IV vitamin C therapy can have a significant impact on the prevention and treatment of infections.

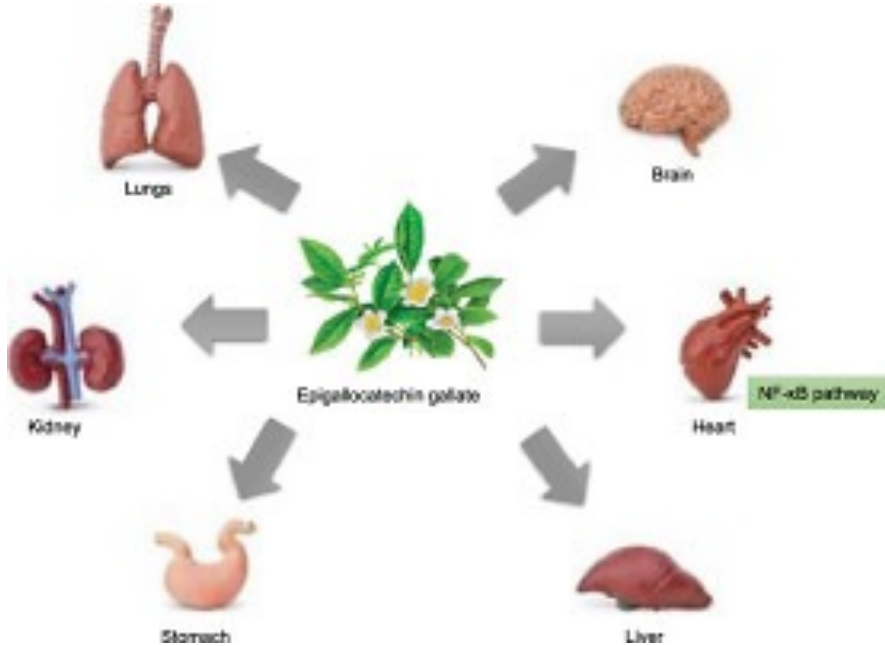
The Vitamin C IV preparations available on the market are usually sterilized with auto-clave method which causes the Vitamin C to oxidize, so i. e. there is therapeutically no effect.

BioMed Laboratories uses the cold-filtration methods with 0.2 micron filters to ensure active Vitamin C in every infusion.

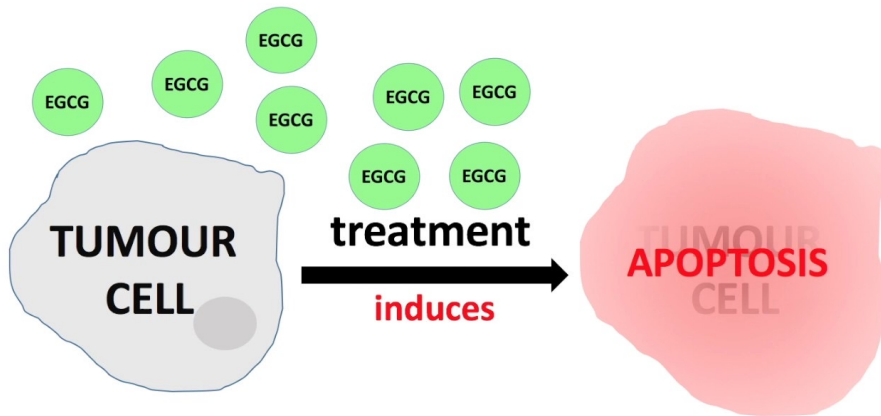
Main benefits of Vitamin C

- Vitamin C boosts your blood's antioxidant
- Vitamin C has been shown to help reduce blood pressure
- Vitamin C treatments may help people who suffer from gout
- Vitamin C helps your body absorb iron better
- Vitamin C may protect thinking and memory functions
- Vitamin C protects pregnant women against prenatal health problems
- Vitamin C has been shown to help prevent cataracts
- Vitamin C protects skin against wrinkling
- Vitamin C helps reduce mental and physical symptoms of stress
- Vitamin C can inhibit the growth of some cancerous tumors

7. EGCG (Epigallocatechin Gallate)



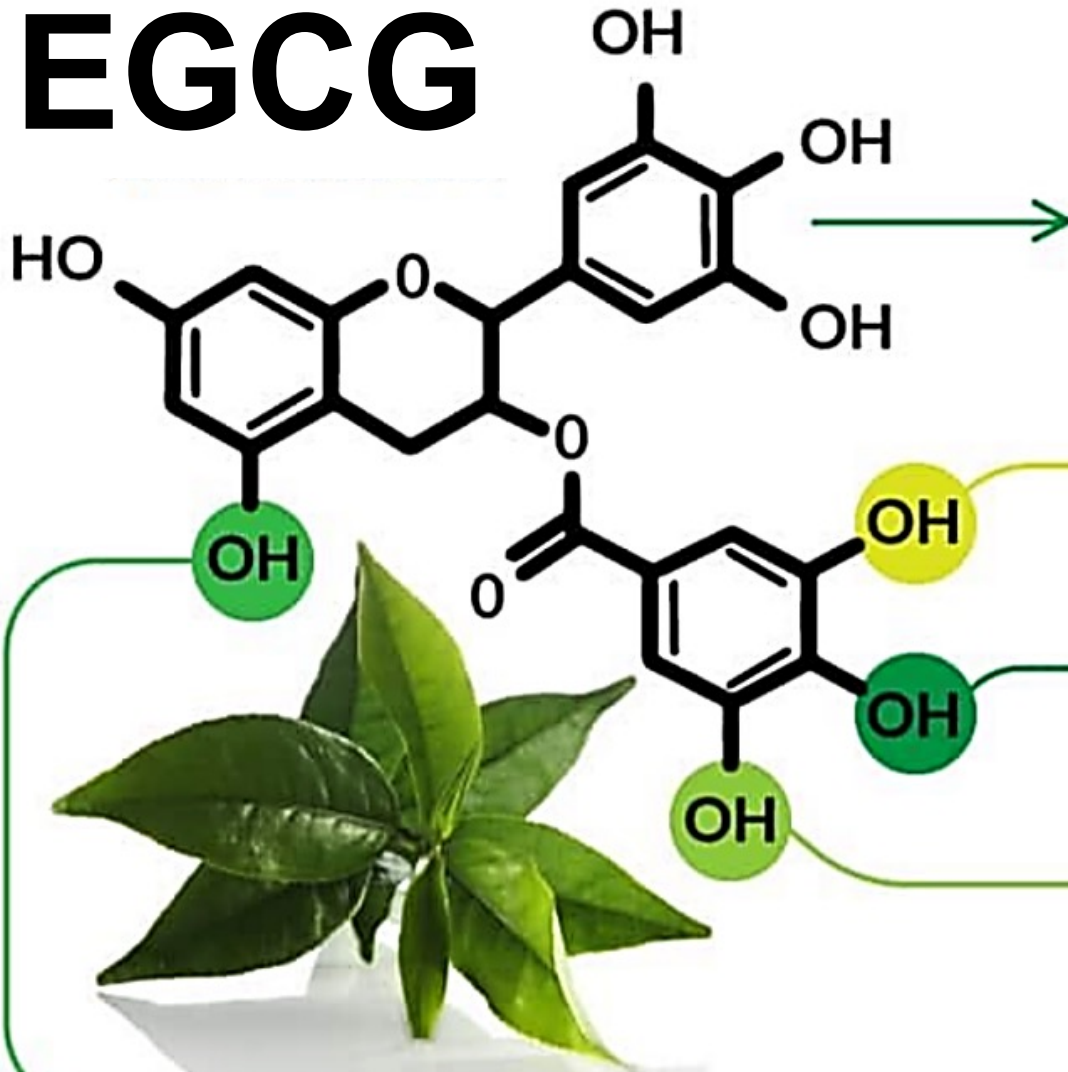
- Formally known as epigallocatechin gallate, EGCG is a type of plant-based compound called catechin. Catechins may be further categorized into a larger group of plant compounds known as polyphenols.
- EGCG and other related catechins act as potent antioxidants that may protect against cellular damage caused by free radicals.
- Free radicals are highly reactive particles formed in your body that can damage your cells when their numbers get too high. Eating foods high in antioxidants like catechins may help limit free radical damage.



Additionally, research suggests that catechins like EGCG may reduce inflammation and prevent certain chronic conditions, including heart disease, diabetes, and some cancers.

EGCG exists naturally in several plant-based foods but is also available as a dietary supplement usually sold in the form of an extract.

EGCG



Green Tea

EGCG may protect against potential carcinogenic agents such as UV radiation, smoking, pentachlorophenol, and heterocyclic amines. EGCG may also work to increase the catabolism of these carcinogens

EGCG in green tea may protect the consumer by inhibiting the growth of bacteria, such as *Helicobacter pylori* in the stomach, which are known to be carcinogenic

EGCG may promote selective apoptosis within tumors by inducing the G1 phase of the cell cycle, by promoting a balance of intracellular phosphorylations that favor apoptosis, or by inhibiting the intracellular enzyme fatty acid synthase

EGCG in green tea may suppress tumor growth by preventing angiogenesis or influencing interleukin production

EGCG may prevent oxidative injury to DNA and cellular proteins. EGCG may also inhibit the formation of intracellular peroxides

8. Telomerase Epinativ - Amino Acid Complex

EPINATIV TELOMERASE

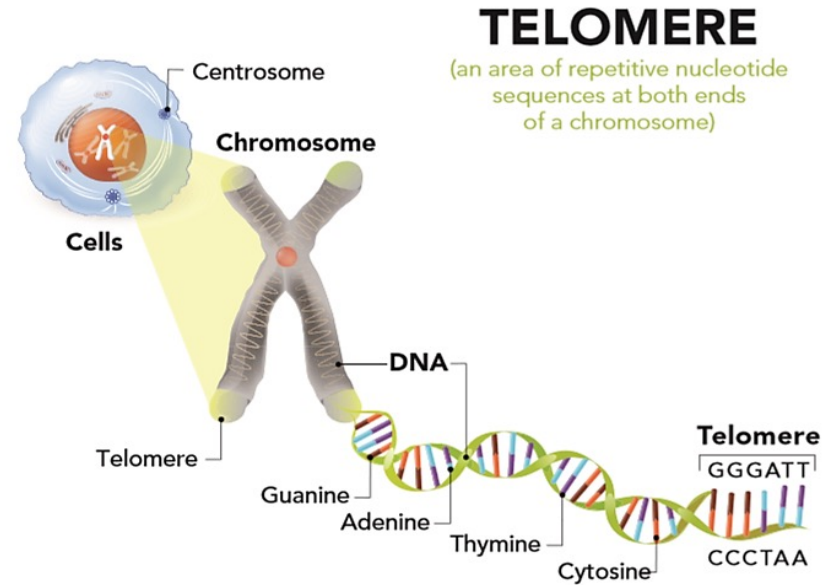
Diseases, environmental factors and eating habits influence our quality of life and reduce our general life expectancy. Scientific research projects and studies have put the focus of interest on how our chromosomes function. The “building blocks of life” give important instructions to our bodies about development, growth and basic functions. Telomeres - The end of a chromosome is known as a telomere. They act as a “protective cap”. Telomeres protect the chromosomes from degradation and ensure the proper functionality and viability of cells. However, during the course of our lives, these telomeres become shorter.

The decisive factors are genetic disposition and lifestyle. Obesity, smoking, mental stress and inflammations contribute significantly to the abrasion and shortening of telomeres. Factors such as healthy eating, sufficient sleep and exercise have a positive effect against this and provide a protective function, thereby leading to biological rejuvenation.

If the telomeres become too short, the cells cannot replicate any longer. The telomeres shorten gradually as they age, therefore, the ability of stem cells to generate tissue is impaired. This leads to ageing and disease processes. In particular, mental performance declines significantly and a once-intact immune system function less and less efficiently. The condition of the telomere is strongly linked with cardiovascular diseases, dementia, depression, diabetes, infertility and cancer. In a large number of scientific studies in the USA, the causes and effects of the shortening of telomeres have been examined and a Nobel prize has even been given in this area of research. The length of the telomeres can be determined by analytical methods in laboratories.

Telomerase

The enzyme telomerase is able to repair short telomeres by lengthening them. Unfortunately, healthy cells do not normally produce a lot of telomerase, if at all. However, some stem cells do produce this enzyme. In particular, you can find it in embryonic stem cells (or iPSC). Through the specific protein chain EPINATIV, made of the amino acids alanine, glutamine, asparagine and glycine (ALA-GLU-ASP-GLY), the activation of the enzyme telomerase can be triggered in the body. The structure of EPINATIV is identical to that of the body's own epithalamine.



9. CoEnzyme Q10

Coenzyme Q10 (CoQ10) is an antioxidant that your body produces naturally. Your cells use CoQ10 for growth and maintenance. Levels of CoQ10 in your body decrease as you age. CoQ10 levels have also been found to be lower in people with certain conditions, such as heart disease.

Biochemically, our cells require coenzyme Q10 to function correctly. Delivering coenzyme Q10 directly into the bloodstream is a vastly more effective means of antioxidant consumption than taking oral, sublingual, and even liposomal supplements. CoQ10 Shots are thus the obvious choice for those who are seeking a natural means of improving their skin and health levels simultaneously.

Main benefits of CoEnzyme Q10:

- Infusions support the nervous system
- They can generate improvements in mental clarity
- Each injection uses natural ingredients that are safe for administration
- Studies have indicated that coenzyme Q10 can improve stamina
- May help to lower blood sugar levels
- Helps Heart Disease
- May protect the lungs
- Help with Exercise Performance
- Keep your Skin young
- May help in Parkinson's Disease

10. Artemisinin (Artesunate)

is a potent and widely used anti-malarial drug. Based on evidence demonstrating its treatment success, many infectious disease experts believe intravenous Artesunate should be the treatment of choice for malaria. It is proven to be an effective anti-malarial treatment and better tolerated than quinidine-based treatments. Over the past decade, additional therapeutic uses for artemisinin have emerged.



Research has found artemisinin is selectively toxic to cancerous cells (causing cancer cell death or apoptosis), is anti-angiogenic (inhibiting the formation of tumor blood vessels), demonstrates anti-HPV activity and exhibits immune-modulating behavior.

In malaria parasites, Artesunate achieves its toxic effects by interacting with iron inside the food vacuole of the parasites. In human cancer cells, Artesunate initiates programmed cell death from the ensuing molecular damage caused by reactive oxygen species (ROS) generated by a reaction with iron.

Studies have demonstrated Artemisinin to have growth-inhibiting effects with certain cancer cell lines, such as cervical cancer cells. Nearly all cervical cancers are etiologically attributable to human papillomavirus (HPV) infection and pharmaceutical treatments targeting HPV-infected cells would be of great medical benefit. Research has found the predominant cancer cytotoxic components of Artemisinin to be DHA (dihydroartemisinin, an active metabolite of artemisinin) and Artesunate (a derivative of Artemisinin). In pre-clinical studies, DHA was found to be highly selective in its toxicity to cervical cancer cells, with no effect on normal cervical cells, making it a desirable anti-cancer agent. The same study found DHA is cytotoxic to all immortalized HPV-expressing cell lines and that the expression of HPV genes makes the particular cancer cell line more sensitive to DHA.

A clinical study on a lipophilic Artemisinin derivative for advanced cervical cancer in African women demonstrated excellent tolerability and a reduction in symptoms and markers of cancer growth. Although it was a small study, all patients in the study achieved clinical remission. The apparent effect of symptom disappearance and prolonged survival observed in this study warrant larger randomized controlled trials using a prolonged and possibly continuous period of artemisinin administration. HPV is also known to cause cancers in other areas of the body, such as the oral cavity and nasopharynx. An animal study examined the effect of Artesunate on epithelial HPV infected cells and found that DHA's cytotoxic effect inhibited tumor growth.

Cytomegalovirus (CMV) can present as an acute or chronic infection affecting a particular type of white blood cell known as monocytes. Studies support Artesunate's efficacy as a CMV treatment agent and demonstrate its ability to reduce lung fibrosis in CMV-pneumonia.

Artesunate demonstrated anti-viral activity against the Hepatitis C Virus (HCV). According to a recent cell study, the combination of interferon therapy (INF) and Artesunate was a more potent inhibitor of viral replication than INF alone. HCV is known to be a causative factor in the development of hepatocellular (liver) cancer. Treatment with Artesunate may have a role in preventing and treating hepatocellular malignancies.

In cell culture and animal studies, intermittent cycles of Artesunate inhibited the growth of several different types of human acute myeloid leukemia (AML). Further, the combining Artesunate with established anti-leukemic drugs and newer tyrosine kinase inhibitors demonstrated better growth inhibition than either treatment alone.

A recent phase I clinical study in patients with locally advanced breast cancer, proved that Artesunate is safe in doses of up to 200mg/day as an add-on therapy to ongoing oncological treatment.

A small, randomized double blind placebo-controlled trial involving 20 patients with colorectal cancer found pre-surgical treatment with Artesunate dramatically reduced the risk of cancer recurrence. At a mean follow-up of 42 months, only 1 patient in the Artesunate group had a recurrence compared to 6 in the placebo group. The trial certainly provides a strong directive for further clinical investigation. Artesunate is among the most promising anti-metastatic agents in the post-surgical setting for colorectal cancer. Other agents with post-surgical anti-metastatic benefit include aspirin, ketorolac, Celebrex and Cimetidine.

At our BioMed Clinics, we prescribe artemisinin in intravenous form, depending on the stage and phase of treatment (peri-operative, active treatment or recurrence prevention).

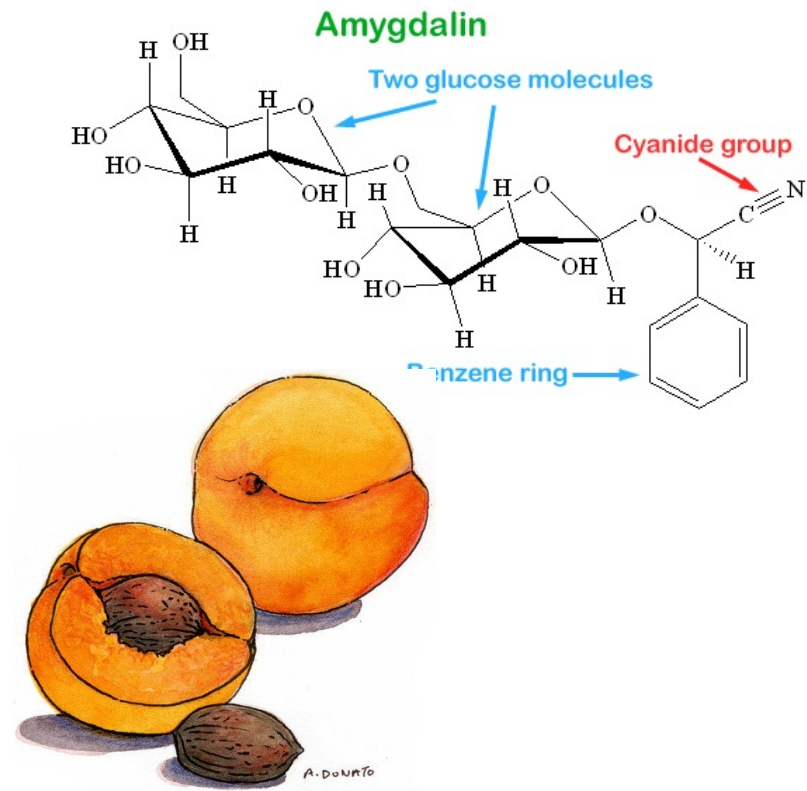
11. Amygdalin

Amygdalin-B17 is used in infusion therapies and in natural chemotherapies.

Amygdalin, Laetrile or B17 is a natural substance, which can be found in apricot stones, but B17 is also present in stones from peaches, nectarines, cherries, plums or apples and is also present in buckwheat, broccoli, spinach, cauliflower or cashew nuts.

From a chemical point of view, B17 consists of one molecule benzaldehyde, which is a painkiller, and one molecule hydrogen cyanide (cyan hydric acid).

Healthy cells are not affected by this process as they contain an enzyme called Rhodanese. The Rhodanese enzyme can convert cyan hydric acid (present within B17) into thiocyanate. Thiocyanate has positive effects on the organism as thiocyanate lowers the blood pressure and is a substance which the organism uses to produce the nerve nutrition B12. Benzaldehyde (present within B17) is transformed within healthy cells with the help of oxygen into the painkiller benzoic acid. The characteristics of B17 lead to the conclusion that B17 can be seen as nutrition for healthy cells and a poison for cancer cells. As the therapy is adopted to the natural regulation of our metabolism, it can be seen as a “natural chemo therapy”.



12. Celandine (Chelidonium majus)

According to a study from 2013, celandine has many positive effects on the body. It works:

- soothing, antispasmodic and analgesic
- antibacterial and fungicidal
- irritating to the skin (attention!) and inhibiting cell growth

This is mainly due to the following ingredients:

- different alkaloids
- organic acids
- bitter substances
- Flavonoids

- Indigestion: Celandine is traditionally used primarily for problems with the biliary tract or the upper gastrointestinal tract. The alkaloids stimulate the production of bile juices. At the same time, the flavonoids soothe the gastric mucosa.
- Celandine extracts have a toxic effect on viruses, bacteria and fungi outside of living organisms. In contrast, they have a moderate cytotoxic effect in the human body. Scientists see the reason in some of the existing alkaloids. A positive effect is that celandine can be active against influenza viruses.



13. *Uncaria tomentosa* (Cat's Claw)

Uncaria tomentosa is a woody vine found in the tropical jungles of South and Central America. It is known as cat's claw or *uña de gato* in Spanish because of its claw-shaped thorns. The plant root bark is used in herbalism for a variety of ailments, and is sold as a dietary supplement. *Uncaria* is a liana deriving its name from hook-like thorns that resemble the claws of a cat. *U. tomentosa* can grow to a length of up to 30m (100 ft), climbing by means of these thorns. The leaves are elliptic with a smooth edge, and grow in opposing pairs. Cat's claw is indigenous to the Amazon rainforest, with its habitat being restricted primarily to the tropical areas of South and Central America. Cat's claw has been used as a traditional medicine in South American countries over centuries for its supposed health benefits, and is a common herbal supplement. The part used medicinally is the bark of the vine or root. Cat's claw is most commonly used for:

- Osteoarthritis. Taking a specific freeze-dried cat's claw extract (*Uncaria guianensis*) by mouth appears to relieve knee pain related to physical activity within one week of treatment, but it does not decrease pain at rest or decrease knee swelling. Taking a specific combination supplement (Reparagen) containing cat's claw (*Vincaria*) and maca (RNI 249) for 8 weeks seems to reduce pain and stiffness, improve function, and reduce the need to use rescue medication as well as taking glucosamine sulfate.

- Rheumatoid arthritis (RA). Taking a specific cat's claw extract (Uncaria) that contains chemicals called pentacyclic oxindole alkaloids but is free of other chemicals called tetracyclic oxindole alkaloids appears to improve symptoms of RA somewhat. Taken by mouth in combination with sulfasalazine or hydroxychloroquine for 24 weeks, cat's claw seems to reduce the number of painful and swollen joints.

Extensive empirical knowledge from ethnological medicine (traditional medicine) was passed on to the following indications:

- Cancer. Early research suggests that 100mg of cat's claw extract taken three times daily for at least 8 weeks may help reduce tiredness and improve quality of life in people with terminal solid tumors.
- A sexually transmitted infection that can lead to genital warts or cancer (human papillomavirus or HPV).
- Alzheimer disease
- Asthma
- Bone pain
- Chronic fatigue syndrome (CFS).
- Diarrhea.
- Hemorrhoids.
- HIV/AIDS.
- Leaky gut syndrome.
- Parasites.
- Shingles (herpes zoster).
- Stomach ulcers.
- Swelling (inflammation) in the colon (colitis).
- Swelling (inflammation) in pouches of the intestines (diverticulitis).
- Swelling (inflammation) of the stomach (gastritis).
- Wound healing.



14. DCA – Dichloroacetic Acid (Dichloroacetate)

Dichloroacetic acid is a small molecule, basically acetic acid with 2 chlorines. The molecular formula is Cl_2CHCOOH . Dichloroacetate is the sodium salt of dichloroacetic acid.

Some different research teams report that DCA turns on the mitochondria of cancer cells, allowing them to commit cellular suicide, or apoptosis. Cancer cells shut down the mitochondria, which is the part of the cell that is involved in metabolism and, incidentally, initiates the cell suicide. A non-cancerous cell will initiate apoptosis when it detects damage within itself that it cannot repair. But a cancer cell resists the suicide process.

That is why chemotherapy and radiation treatments do not work very well and actually result in terrible side effects... the healthy cells actually die much easier. Michelakis and his team discovered that they could re-activate the mitochondria of cancer cells. Not only that, the DCA is very effective in doing it: To quote from the Michelakis paper: “The decrease in $[\text{Ca}^{2+}]_i$ occurs within 5 min and is sustained after 48 hr of DCA exposure.”

The mitochondria are so sensitive to DCA that just 5 minutes of exposure reactivates them for 48 hours. The metabolic approach to cancer is supported by many other researches.

15. Amino acid Complex ALL IN ONE

are organic compounds that combine to form [proteins](#). Amino acids and proteins are the building blocks of life. When proteins are digested or broken down, amino acids are left. The human body uses amino acids to make proteins to help the body:

- Break down food
- Grow
- Repair body tissue
- Perform many other body functions

Amino acids can also be used as a source of energy by the body.

Amino acids are classified into three groups:

- Essential amino acids
- Nonessential amino acids
- Conditional amino acids

ESSENTIAL AMINO ACIDS

- Essential amino acids cannot be made by the body. As a result, they must come from food.
- The 9 essential amino acids are: histidine, isoleucine, leucine, lysine, methionine, phenylalanine, threonine, [tryptophan](#), and valine.

NONESSENTIAL AMINO ACIDS

Nonessential means that our bodies produce an amino acid, even if we do not get it from the food we eat. Nonessential amino acids include: alanine, arginine, asparagine, aspartic acid, cysteine, glutamic acid, glutamine, glycine, proline, serine, and tyrosine.

CONDITIONAL AMINO ACIDS

- Conditional amino acids are usually not essential, except in times of illness and stress.
 - Conditional amino acids include: arginine, cysteine, glutamine, tyrosine, glycine, ornithine, proline, and serine.
- You do not need to eat essential and nonessential amino acids at every meal, but getting a balance of them over the whole day is important. A diet based on a single plant item will not be adequate, but we no longer worry about pairing proteins (such as beans with rice) at a single meal. Instead we look at the adequacy of the diet overall throughout the day.

16. Chelation Therapy (Ca/Na-EDTA)

Ethylene Diamine Tetra-acetic Acid

Chelation is the IV infusion of EDTA to treat blood vessel inflammations. This helps improve blood circulation especially for those who have arteriosclerosis, and can reduce the bypass operation rate as much as 85%. Chelation removes toxic heavy metals that damage the walls of our blood vessels, mainly via urination. Our blood vessels become more flexible and have wider lumen, making it easier for the blood cells to be circulated throughout our body. In addition, chelation can help reduce oxidative stress and plaque formation in the blood vessel. Therefore, overall health will significantly improve. Chelation can solve and alleviate high blood pressure, arteriosclerosis, Diabetes Mellitus, heavy metal toxicity, chronic headache, diseases from abnormal blood circulation and numbers of chronic diseases.

Benefit:

- Remove toxic to the body and Cardiovascular system
- Reducing the risk of cancer
- Improve better blood circulation
- Reducing the risk of coronary artery disease in the brain and heart. Reducing blood cholesterol levels, This is the main cause of Hypertension Disease and Ischemic Heart Disease (IHD)
- Prevent degenerative disease
- Help relieve the symptoms of hypertension disease, diabetes mellitus, heavy metal poisoning, migraine headache and chronic illness
- Decreases skin inflammation
- Relief for Alzheimer's disease, improve brain function and memory
- Sexual Rehabilitation
- Help improve more nervous system

Calcium disodium EDTA (Ca-EDTA) chelation removes heavy metals and minerals from the blood, **Disodium EDTA (Na-EDTA)** is used for arteriosclerosis and coronary heart disease (CHD).

Intelligent Aging for Men

Male Enhancement

- **Shock Wave Therapy**
- **Blood Laser Therapy**
- **Infusion Therapy**
- **Hormone Therapy**
- **Penile Enlargement**

Shock Wave Therapy

Erectile Dysfunction (ED) affects more than 150 million men worldwide and has a negative impact on men's confidence and quality of life. Vascular pathology represents a frequent underlying cause. Thus risk factors such as hypertension, diabetes, hyperlipidemia, smoking and obesity not only threaten vascular health, but also erectile function.

Several options for the treatment of erectile dysfunction are available on the market today. The first-line treatment option for most men is the administration of oral medication on-demand. This option merely treats the symptoms, but does not correct the underlying pathophysiology and requires planning prior to sexual activity which inhibits spontaneity. Studies show that approximately 50% of men stop using PDE5-I within the first 1.5 - 2 years. When medication fails, or patients are seeking drug-free-management for ED, further treatment options are typically more interruptive to the couple's life or can even be highly invasive.

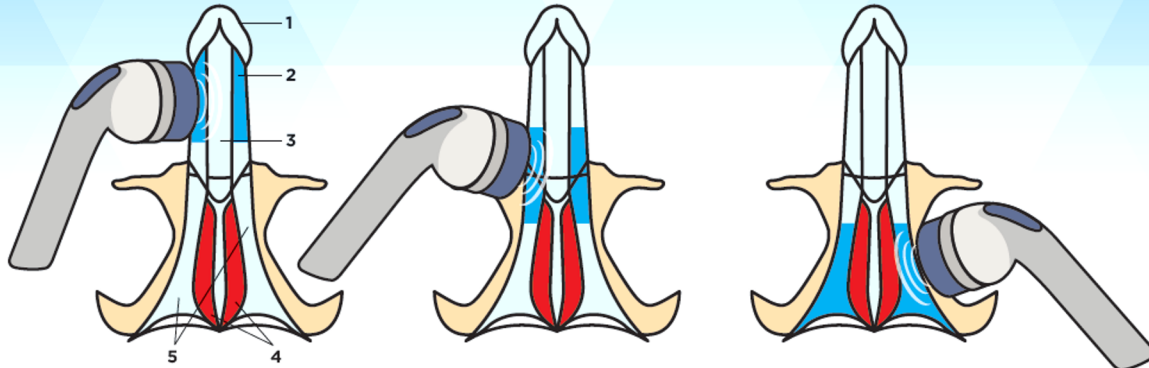
THE MEN HEALTH CLUB offers an entirely new, non-invasive approach to treating our patients. This first of a kind shockwave treatment (so called LINEAR SHOCK WAVE THERAPY, LSWT) initiates a cascade of biological reactions, resulting in the release of growth factors which in turn trigger neo-vascularization of the tissue with subsequent improvement of the blood supply. The increased blood flow helps to attain an erection sufficient for sexual intercourse. With our Smart Focus applicators we offer an effective, convenient and well accepted treatment option for our patients suffering from vasculogenic ED. The unique Smart Focus shockwave technology is developed in Germany and is what makes the treatment effective and exciting for both patients and physicians.

INNOVATION FOR OUR PATIENTS

Treating the cause of ED with the German LSWT-System is:

- **Easy** – It's a non-invasive, painless treatment option for vasculogenic ED. A novel therapy for men seeking drug-free management or who have not responded well to PDE5-I only.
- **Effective** – LSWT has helped nearly 75% of men suffering from vasculogenic ED achieve significant and longer lasting improvement of erectile function depending on the severity and case history.
- **Exciting** – LSWT helps to restore spontaneity and improves erectile function without unpleasant side effects.

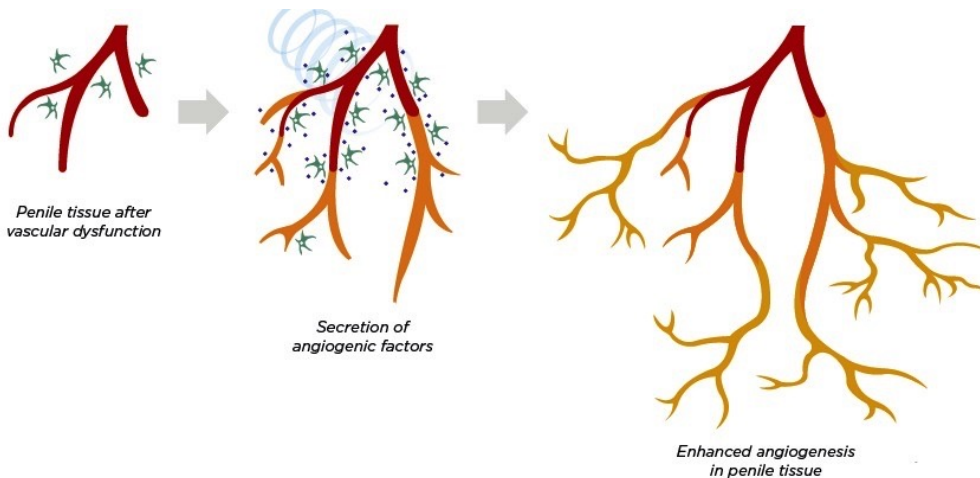
Shock Wave Therapy



1 Glans penis 2 Corpus cavernosum 3 Corpus spongiosum 4 Bulbospongiosus muscle 5 Ischiocavernosus muscle

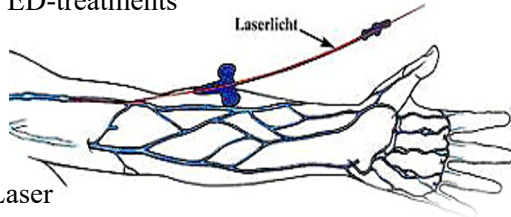
Treatment Areas

After a total of 6 sessions, each lasting approximately 15 minutes, Dornier Aries significantly stimulates growth factors in the penile and pelvic tissue and improves endothelial function by angiogenesis and neovascularization. This improved function can be seen on ultrasound measurements of the penile and pelvic tissue over the course of the treatment.

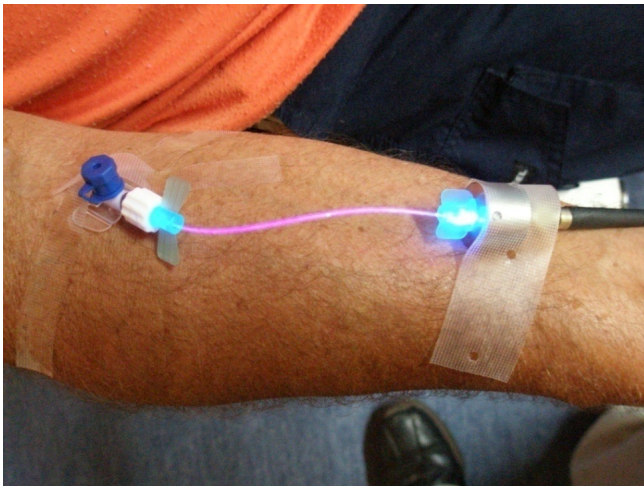


Blood Laser Irradiation

Laser light was introduced directly into the flowing blood. Previously, in-vitro studies have shown that biological soft laser irradiation of white blood cells trigger a variety of positive effects, in particular expression of immuno-globulins, interferons and interleukins, which are of particular importance. After introduction of the process, numerous studies were published that showed additional effects on various metabolic processes. In almost all patients we found a general stabilizing and energizing as well as many other positive effects in conditions like chronic liver diseases, diabetes mellitus, lipid disorders, and various other diseases. This opens new therapy options in the treatment of systemic disorders of the metabolism and immune system. Blood Laser Irradiation improves the blood circulation in general, especially in field of ED-treatments



Intravenous Blood Laser



General effects

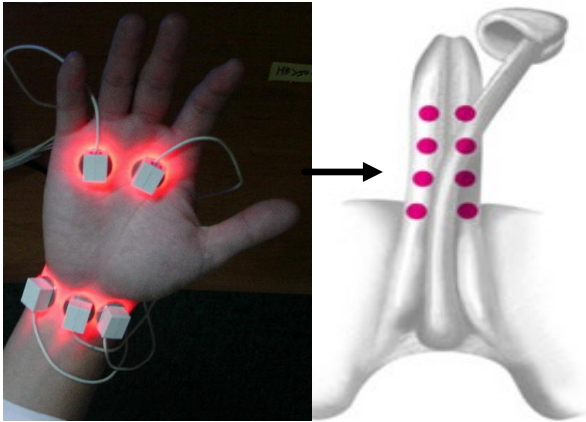
- Stimulation of the immune system
- Stimulation of the formation of blood
- Improvement of microcirculation
- Anti-allergic and anti-inflammatory effects
- General antitoxic effects
- Increase of the O₂-assimilation of the blood
- Increase of the cell activity
- Normalization of blood sugar and the cholesterol
- Improvement of liver valves
- Increase of kidney power

Typical diseases to treat with laser:

- Diabetes mellitus
- Chronic liver diseases
- Lipo-metabolism disorders
- Chronic pain syndromes
- Rheumatoid arthritis
- Polyneuropathy
- Chronic inflammatory bowel diseases (M. Crohn, colitis ulcerosa)
- Fibromyalgia
- Hypertension
- Tinnitus
- Macula degeneration
- Multiple sclerosis
- Chronic fatigue syndrome (CFS)
- Allergies and eczemas
- Cancer (photodynamic therapy, PDT)
- Erectile Dysfunction

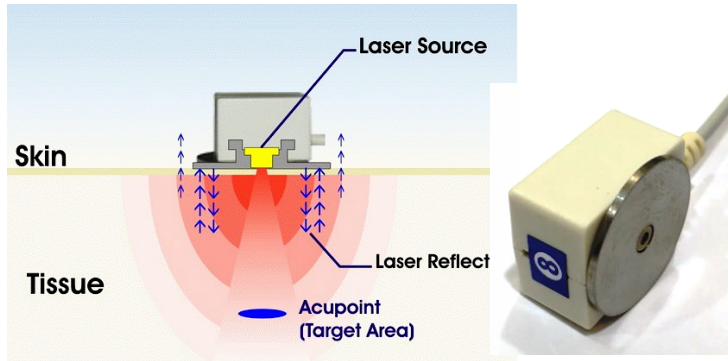
Penile Blood Laser Irradiation

Transcutaneous Blood Laser Irradiation (hand veins or penis veins)



In addition to the invasive method of intravenous laser blood irradiation (IV, LBI) non-invasive **epicutaneous laser blood irradiation** (ELBI) is also available. This non-invasive and relatively simple method of blood irradiation has been taken into use only after development of bright enough red and infrared lasers. It was shown that infrared radiation can go deep enough to reach vessels and irradiate blood. In addition, red laser light can also influence blood in superficial veins. Currently semi-conductor laser diodes with red (630-670nm) or near infrared (800-1300nm) light emission are used to perform ELBI therapy. Recent studies suggested that the medical effects of ELBI are similar or very close to the effects of IV LBI. It is believed that the treatment results of 20mW red laser ELBI are similar to 1mW red laser intravenous blood irradiation.

Laser light is delivered to the skin in the area of a large vein or artery through a special light-guide. Contact of the light-guide with the skin with some pressure can increase penetration of the light. The biggest advantage of ELBI is that this method of blood irradiation is painless.



Another important issue is that the need for intravenous injection is completely eliminated. This is why ELBI has the greatest advantage for the treatment of children or patients with bad or difficult vessel conditions (such as penile veins).

Similarly to transcutaneous laser application to the hand veins we also can use the blood vessels directly on the penis in a special tube.



Intravenous Nutritional Therapy

Intravenous (IV) nutritional therapy administers vitamins, minerals, amino acids, and other nutrients directly into the bloodstream. The IV route allows for a higher concentration of nutrients to be delivered to the tissues than does oral supplementation (the majority of dietary vitamin and mineral oral supplementation is not well absorbed by the digestive system, resulting in unknown deficiencies that can affect our life quality). A small intravenous catheter is temporarily placed into the vein, which sends nutrients directly to where they are needed.

Vitamins, minerals, amino acids, and other nutrients can produce potent drug-like effects when administered through an IV, but without the side effects of prescription medicine. IV therapy can be used to obtain immediate results or it can be spread out in several programs for long-term results.

The success rate of IV nutritional therapy can be measured in terms of the overall health of the patient. This treatment has been shown to be a preventive aging measure since it has the ability to optimize the nutritional makeup of cells and enhance metabolism.

Other benefits include:

- Increased libido & energy
- Repairs Erectile Dysfunction
- Enhanced mind and sense of well-being
- Improved fat loss & sports performance
- Improved healing and recovery post-exertion or damage (e.g. exercise, surgery, a night out)
- Boosted immune function
- Decreased stress & anxiety relief
- Detoxification and improved beauty

Many of these benefits are seen within hours of receiving the treatment. Some chronic conditions require numerous sessions in order to achieve sustainable benefits.

Many of these benefits are seen within hours of receiving the treatment. Some chronic conditions, however, require numerous sessions in order to maintain the benefits.

IV therapy is particularly beneficial since the majority of dietary vitamin and mineral oral supplementation is not well absorbed by the digestive system. This poor absorption results in unknown deficiencies and health-related issues that can affect our life quality. With IV therapy, however, high doses of nutrients can be safely introduced into the body. The IV route allows for a higher concentration of nutrients to be delivered to the tissues than does oral supplementation, thus obtaining powerful results.

Male Enhancement iv-Program

Male Enhancement Infusion (IV-Cocktails A, B, C) and Supplement Programs
content all essential substances, such as:

ED-(most)relevant active Substances

- L-Arginine
- L-Carnitine
- Creatine
- S-Adenosylmethionin (SAM-e)
- OPC
- Resveratrol
- ECGC
- Q10
- Vitamin E
- Vitamin D3
- Folic Acid
- Natriumselenit
- Zinc
- Molybden
- Testosterone
- PDE-5-Blocker
- Apomorphin SL

ED natural active Substances (Herbals)

- Butea superba
- Bösenbergia rotunda
- Maca
- Muira Puama
- Catuaba (Erythroxylum catuaba)
- Yohimbine (Coryanthe Yohimbehe)
- Ginko biloba
- Panax Ginseng C. A.
- Aloe Vera barbadensis mill.
- Centella asiatica

ED-supportive Substances

- **Vitamin A**
- **Vitamin K**
- **Vitamin B-Complex**
 - Nicotinamide
 - Dexpanthenole
 - Thiamine
 - Pyridoxine
 - Riboflavin
 - Sodium phosphate
 - Methyl-Cobalamin
 - Pangamic
 - Biotin
- **Amino Acids**
 - Aspartic acid
 - L-Glutamine Acid
 - L-Isoleucin
 - L-Leucin
 - L-Lysin
 - L-Methionin
 - L-Valin
 - Taurin
 - Glycin
 - Acetystein
 - N-Acetyl
 - I-Tyrosine
 - L-Phenylalanine
 - L-Valine
- **Minerals and Trace Elements**
 - Potassium
 - Copper
 - Manganese
 - Zinc
 - Chrome
 - Iron
 - Sodium fluoride
 - Magnesium
 - Cobalt

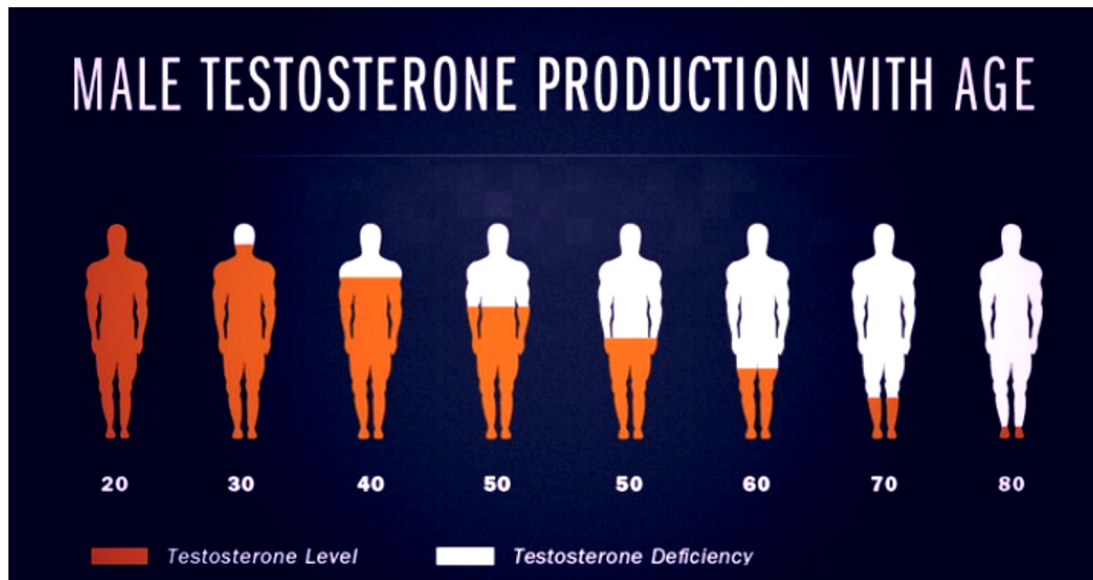
Male Hormone Therapy

Male Menopause

An upsurge in media attention regarding the so-called "male menopause" has left many men rushing to their doctor to treat symptoms they believe may be related to low levels of testosterone. The thought behind the concept of male menopause is that the decline in testosterone levels that occurs as men age may produce a characteristic and potentially treatable set of symptoms. Male menopause is also commonly referred to as low-T, Andropause, or its medical name, late-onset hypogonadism. However, some medical experts argue that the analogy to the process in women (with some authors even using terminology like "male PMS") has been carried too far. While it is true that testosterone levels do decline as a man ages, the decline in female hormones occurs to a much greater extent. Moreover, the symptoms in women associated with decreased estrogen levels are clearly understood.

Symptoms of Male Menopause

In contrast, symptoms of what is referred to as male Menopause are less clearly defined. Sexual dysfunction is a common complaint, but other nonspecific symptoms such as depression, mood changes, weight gain, or fatigue, have been interpreted by some as symptoms of a male midlife change. Although many doctors have treated midlife symptoms in men with testosterone hormone therapy, the value of male hormone therapy remains controversial because there are few long-term studies about the effects or benefits of testosterone supplementation.

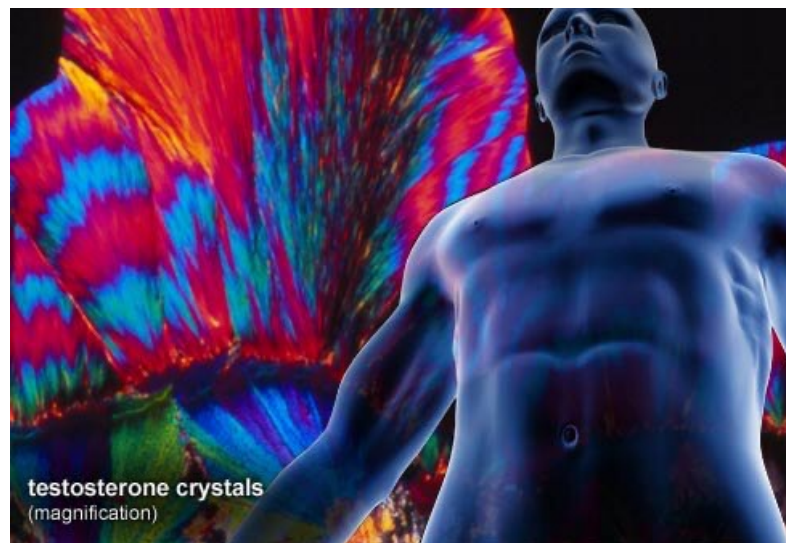


Male Hormone Therapy

Guidelines for prescribing testosterone

In 2006, the Endocrine Society published evidence-based guidelines for testosterone replacement therapy in men and updated these guidelines in 2010. Specifically, for men who do not have testicular or pituitary disease, these experts recommend testosterone therapy only for men with definite and reproducibly low serum testosterone concentrations (<200 ng/dL) who have symptoms of androgen deficiency (symptoms of deficient blood levels of testosterone hormone).

As with any therapy, doctors will discuss the uncertainty about the risks and benefits of testosterone therapy. Experts further recommend that the therapeutic goal in these men is to reach a testosterone level that is lower than that for younger men, for example, 300 to 400 ng/dL, rather than 500 to 600 ng/dL, to minimize the potential risk of developing any testosterone-dependent diseases.



Special Enhancement Programs

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the frame, creating a modern, dynamic feel. The text is centered on the left side of the page.

Penile Enhancement Program

Part 1

(possible also as single treatment)

Since 2004, experts in plastic surgeon have been recommending injections of the highest quality FDA approved Hyaluronic Acid, a naturally occurring liquid found in the body for penile augmentations.

Their method has been proven successful for more than 1.000,000 patients world-wide and continues to gain popularity because of patient satisfaction and ease:

- Excellent safety record.
- No cutting or bleeding (only injections).
- Short treatment time (within 60 minutes)
- Local, not general, anesthesia.
- No scarring (as opposed to open surgery).
- Long-lasting and substantial size gains.
- (You know, you can now increase your size by 30% or more within 60 minutes.)
- Non-invasive procedure
- Proven to be 100% safe and effective
- Confidentiality guaranteed

Penis augmentation

- Minimum suggestion 10ml
- Satisfy and sustain your partner.
- Stay strong longer.
- Dramatically boost your life.



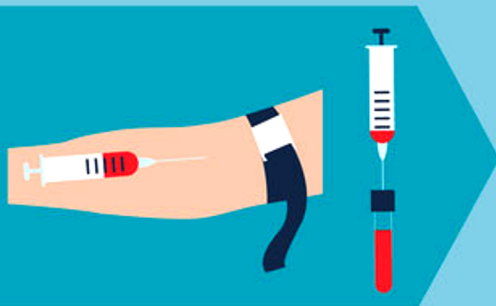
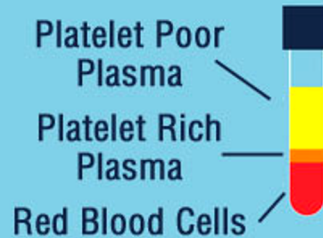
Penile Enhancement Program

Part 2

(possible also as single treatment)

PREMIUM PENIS ENLARGEMENT with PRP

Platelet Rich Plasma (PRP) is concentrated blood plasma which is used as a treatment for growth



1 Blood Collection



2 Separation of platelets in Centrifuge



3 PRP Injection into Penis Area

Special Penile Enhancement Super-Combination-Program



**Simultaneous combination of 4 therapy
modules:**

- 1. PRP**
- 2. Hyaluronic Acid**
- 3. Low-Doses-Vasodilator**
- 4. LP-Blood Laser**



Surgical Penis Enlargement

Is a penis enlargement sensible?

How large is an average penis?

According to the EU condom standard, the average European penis measures 16.5 cm when erect, which is consistent with our findings from the past 10 years. Some places on the Internet list sizes far above or below the average. Some of these sizes are simply made up and, if they specify any sources for their men have a shorter penis on average, but this information does not help non-Asian men to estimate the size of their own penis. The EU condom standard specifies a size with a Europe-wide consensus of 16.5 that can be called the real European average.

Is penis size important?

As we already knew from our experience over the last 15 years and you the patient have surely already suspected, the answer is 'yes'.

After the topic of penis size had been a taboo subject for the scientific community for a long time, a serious scientific study was finally conducted on this issue at the University of Ottawa, Canada. There was an unambiguous and very clear result: Women rate men with a larger penis significantly more attractive. Enlarging a penis with a size that is below average is therefore sensible and has a significant effect on the patient concerned. The clearness of the result of the study of the University of Ottawa even suggests that it is sensible to enlarge an average sized penis. That even surprised us. Our experience also clearly shows that the vast majority of patients gain an increased sense of self-worth through penis enlargement. It causes them to have more success in their relationship, during sexual intercourse, in their social life and in their profession.

Fundamental considerations

The size of a penis should only be modified if it can genuinely be defined as small from a medical viewpoint. We firmly refuse to create a 'monster-sized' specimen out of an already large penis. If you are considering penis enlargement surgery, you should imagine a moderate result, not the best result possible. In other words, you should only undergo a surgery if an increase in length of 3 cm would suffice. For while 5, 6 or even 7 cm would no doubt be more enticing, an operation need not necessarily deliver such results in your case. We are well aware that patients with an extremely small penis (e.g. 9 cm when erect) in particular would like nothing more than a normal-sized penis, but 9 cm plus (for example) 5 cm still only totals 14 cm and, should the result be on the lower end of the scale, then perhaps only 12 or 13 cm. An increase of 50% would be a tremendous improvement, of course, yet the result still would not quite be 16.5 cm. Please be aware that we can achieve great results but that we can't work miracles. We can only rarely assist patients whose erections measure less than 11 cm to attain an average-sized penis, but we can bring them considerably nearer to this goal. Patients must be well aware of this in advance.

Your personal wishes are what count – nothing else. We will provide you with an honest and professional appraisal, never arguments to sway your decision - we sometimes may even refuse to perform a surgery. These are also aspects of our high standards and a basis for trust.

Regardless of whether we agree to perform the surgery or not, we will address your queries and concerns with understanding and an open mind. Patients have no need to feel ashamed about any aspect of their condition or any question they may ask.

Surgical Penis Enlargement

Why should you have your surgery performed by us?

Because that is that is precisely what patients and notable figures from all over the world do because of our high quality and experience.

Germany is the **world champion** in this operation. Just read the recent press reports about this.

And as the market leader, our German centre is responsible for this good reputation!

THE MEN HEALTH BANGKOK offers two options:

1. Complete treatment in our clinic in Germany
Package price including flight and 2 nights hotel: 12,000,- € 465,000 THB
2. Complete treatment in Bangkok by our original German team in a partner hospital; this is possible every 1st weekend of the month.
Price: 10,000,- € 395,000 THB

More details you can get in a personal doctor consultation.