

## SL-150, SL-500 Infra



### Special blood irradiation (laser beam directed to the nostrils)

- It can prevent the development of cardiovascular diseases.
- It has an extremely beneficial effect in the prevention and after-treatment of circulatory disorders (heart-attack, stroke, thrombosis)
- Reduces or eliminates the harmful levels of adhesion of red blood cells. (blood clotting) .
- Helps maintain and restore healthy blood circulation, improving the blood and the oxygen supply to the organs.
- It can reduce high blood fat and cholesterol levels.
- Help increase the blood flow in case of arteriosclerosis and vasoconstriction.
- It can normalize blood pressure.
- It can decrease blood glucose levels, because due to the increased metabolism of cells, more sugar is burned. (the activity of various enzymes and hormones increases. Eg.: insulin)
- It relieves or eliminates the symptoms of allergy, asthma and hay fever. (it is best to start daily treatment one week prior to the allergy season)
- Relieves symptoms and accelerates course of colds, flu, respiratory infections.
- Strengthens the immune system. (improved oxygenation)
- Improves stamina in case of spring-fatigue, weakness or convalescence.
- Relieves symptoms of depression, headaches or amnesia.

- Relieves or terminates itching, pain and inflammation in case of the inflammation of the ear and auditory meatus. (laser beam guided in the ears)
- Accelerates the healing process after dental treatments, surgery or in case of gum atrophy and gum or mucous membrane inflammations. (eg. trush),. (laser beam directed to the problematic areas of the oral cavity + to the nostrils)
- Enhances performance when used before doing sports.
- Prevents the formation of muscle soreness when used immediately after doing sports.(laser beam directed to nostrils, for 5 minutes in each nostril)
- Improves the detoxification ability of the body by accelerating the evacuation of excreta through improving blood and lymph circulation.
- The improved lymphatic circulation helps the mobilization of deposited fat reserves mobilization and reduces the appearance of cellulite as well.
- It accelerates the fat burning metabolism. (assists dieting)
- Reduces the amount of stress hormones, improves the quality of sleep.
- It reduces the signs of aging, wrinkles, fading vision, memory problems, etc. ..

**Why it is the nostrils, that should be irradiated for treatment of certain diseases?**



That's because **here the mucous membrane is very thin and very rich in blood vessels**, so the laser light is able to irradiate the blood flowing through with almost no attenuation.

A lot of positive experience have accumulated in relation to blood laser irradiation since the 1970s. Tens of thousands of patients have experienced the benefits of blood irradiation an U.S. and later at Russian and Chinese clinics. (Such as improved microcirculation, reduced thrombosis exposure and dramatically improved regenerative processes in the body.)

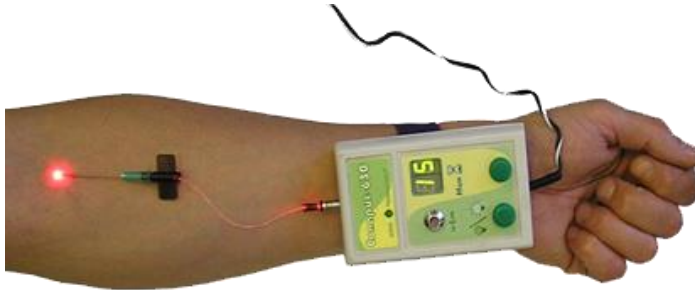
When irradiating the blood with laser, the effects that are generated in the photoelectric acceptors are able to create beneficial changes in the whole body via the mitochondria and via the cells.

Initially the laser therapy worked as intravenous blood irradiation. A thin laser glass fiber was introduced into the vein of the forearm through a needle to irradiate the circulating blood continuously.

Later, it proved to be effective to heal through the skin (eg. skin over the wrist)

Today, irradiating the blood with laser is most effective when done through the mucous membranes that are rich in blood vessels, and the easiest way to do this is to irradiate the nostrils.

**During nostrils irradiation** laser light illuminates the nasal cavity and the brain sheets. Numerous nerve artery and vein pass through the lower part of the brain. Laser light irradiates the blood flowing through, the crossing nerve endings, stimulates the central nervous system, normalizes the immune system and stabilizes the hormone system.



*blood irradiation in the past*

### **The 3 reasons why irradiating the nasal cavity works greatly:**

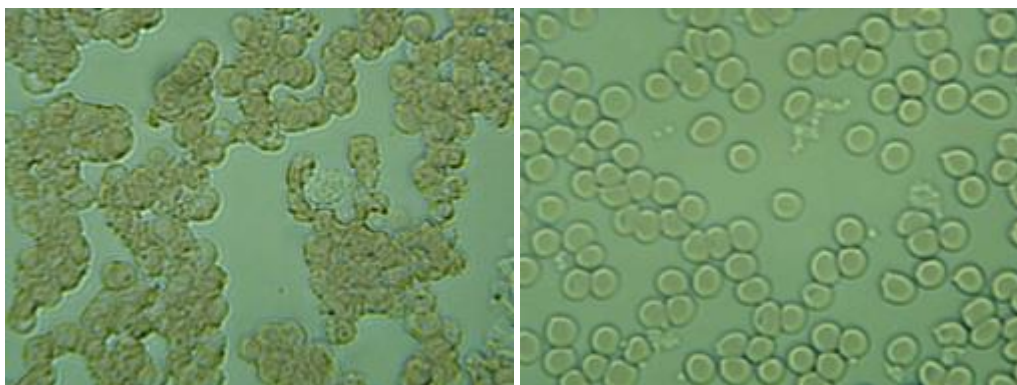
- There is a thin mucous with good permeability
- Dense vascular network ensures easy absorption of laser radiation,
- The parasympathetic and sympathetic nerves are present in large numbers

### **Why does the body's circulation improve with nasal treatment?**

Laser treatment **increases the oxygen carrying capacity of the blood**. Hemoglobin found in red blood cells carries oxygen in the blood. Due to unhealthy lifestyles (polluted environment, smoking, lack of exercise, stress, fatty foods etc.) the red blood cells become covered with excess cholesterol and lipids (fat) causing reduced oxygen uptake. This can lead to many diseases (heart attack, tumor formation, acidification, damage to organs) The 660nm laser light increases the activity of enzymes that break down blood-fat (cholesterol transferase, lipoproteiniase) and which play an important role in dissolving the fat layer surrounding the red blood cells.

Red blood cells freed from the layer of fat will be able to efficiently uptake oxygen again thus improving the oxygen-carrying capacity of the blood, resulting in prevention and treatment of many diseases.

The laser therapy **inhibits blood clotting** as the red blood cells were freed from the fat layer, their negative charge resurfaces, thereby increasing the repulsive force between two cells. Originally congested cells are separated from each other, so a larger surface able to bind oxygen.



*Changes in the red blood cells after a few minutes of laser treatment*

**Reasons for adhesion of red blood cells:** Stress, pollution, fatty protein-rich food, additives, too many free radicals, etc.

**Benefits of termination of adhesion of red blood cells:** improvement in microcirculation, oxygenation of cells and energy production therefore improves the functioning of all organs.

Eliminating the harmful interconnections therefore helps in curing many diseases eg. stroke, myocardial infarction, hypertension.

The laser irradiation effects not only the degreasing enzymes, but also changes the molecular structure of other proteins of the blood, launching a series of biological processes. After applying Safe Laser light on the mucosal blood vessels constrict then dilate, resulting sympathetic and parasympathetic nerve stimulation.

**This leads to the enhancement of cerebral blood flow which affects the whole body.**

Laser treated nasal mucosa also prevail beneficial effect on remote areas eg.: the circulatory system.

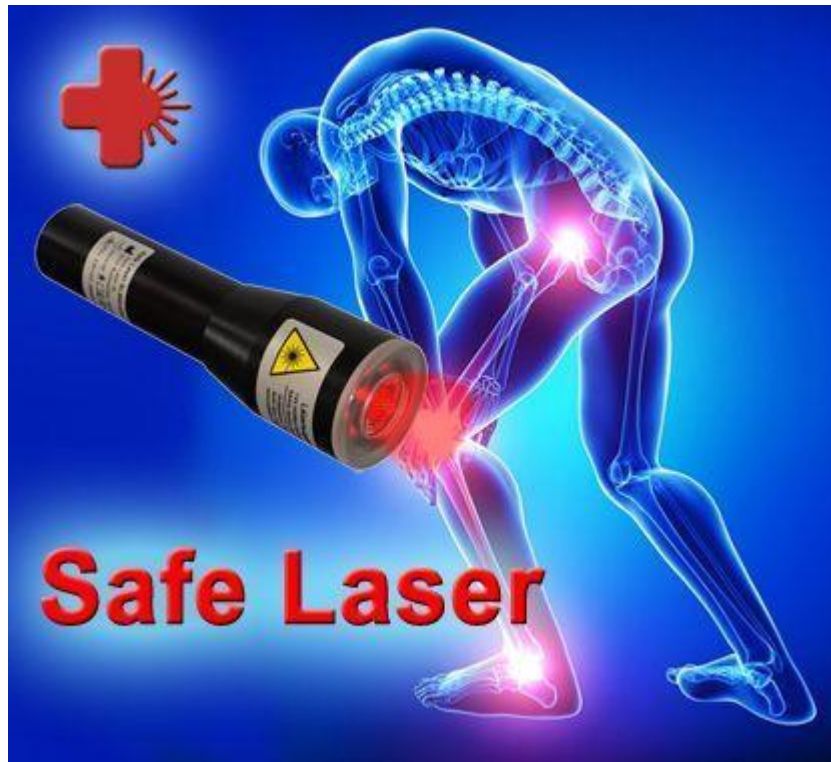


In summary, the irradiation of nasal cavity with red light laser immediately improves the quality of blood, microcirculation, the brain's blood supply, blood oxygen content and increases the oxygen supply to organs and tissues. Beyond that it improves the condition of the patient within a short period of time in occurrence of psychosis, headache, dizziness, limb paralysis and other problems that can be traced back to micro-circulation diseases.

**The nasal cavity irradiation not only treats the symptoms, but in many cases plays a role in eliminating the major causes because its effect on the whole organism and stimulates the body's own healing ability.**

**By eliminating problems and symptoms the Safe Laser therapy improves the quality of life and prolongs your life.**

#### **Problems that can be treated with SL-500**



Infra laser has stronger, more effective benefits on the body. Specifically recommend for musculoskeletal disorders, muscle strain and disease.

#### **Local treatment (laser beam can't directed to the nostrils)**

- Muscle soreness
- Muscle strain, bruises, haematomas, fractures
- Ligament, muscle, tendon rupture
- Musculoskeletal disorders
- Arthrosis, gonarthrosis
- Arthritis
- Osteoporosis
- Degenerative disc disease
- Muscle disease
- Tendon sheath inflammation

- Bursitis
- Periostitis

### Areas of application for laser light therapy

Due to the beneficial biological effects listed above laser therapy is now applied in many fields like:

#### For deep tissues (4-5cm)

Sports injuries

Rheumatology

Dentistry

Muscle strain

Bruises

Haematomas

Fractures

Ligament, muscle, tendon rupture

Muscle soreness

#### Musculoskeletal disorders

Arthrosis, gonarthrosis

Arthritis



### Properties

Performance: **500mW** continuous radiation

Wavelength: **808nm** (red light)

Harmless to the eyes

**Comfortable:** The laser therapy is feasible not only in clinics but also in your own home; you can use it any time and anywhere you go

Simple, practical, **easy to install** and use (battery or rechargeable battery operation)

**Short treatment time:** a surface treatment time is only 3-5 minutes

Applying is **painless**

Non-contact treatment is possible: eg at infected wounds, painful surfaces

No known adverse side effects

Shortens recovery time



Can be combined with any other therapy

1 year warranty

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