The laser irradiation of blood can be used as a "standard therapy" on any patient. It is recommended for various pathologies, e.g. for vascular diseases/blood circulation, immune system, diabetes, chronic liver disease, allergies, dyslipidemia, depression, general stimulation of the organism.

Originally, the invasive laser blood irradiation has been used for cardiovascular diseases (developed in Russia and introduced for HeNe laser in 1981 by Meshalkin and Sergievskiy).

Research


Effect of intravenous laser blood irradiation on endothelial dysfunction in patients with hypertensive disease
Burduli NM, Aleksandrova OM.

The aim of this work was to study effect of intravenous laser blood irradiation (ILBI) on endothelial dysfunction in 120 patients (mean age 53.4 +/- 1.3 yr) with grade I-II hypertensive disease (HD) allocated to 2 groups. Traditional drug therapy given to patients of control group was supplemented by ILBI using a Mulat laser therapy device in the study group. Endothelial function was evaluated from the total plasma concentration of stable NOx metabolites, nitrates (NO3-), nitrites (NO2-), and Willebrand's factor. HD patients were found to have elevated activity of the Willebrand factor and show 3 types of response of the NO generating system: (1) decreased NO synthesis, (2) lack of its changes, and (3) increased NO synthesis. NO production in HD patients negatively correlated with systolic (r = -0.59) and diastolic (r = -0.64) arterial pressure (AP) which suggests the relationship between decreased NO production and elevated AP.

Inclusion of ILBI in the therapy of HD resulted in a significant decrease of Willebrand's factor activity and normalization of the NO level regardless of its initial value.

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Delivery contents: LightNeedle 300, tongue applicator, 500 protection covers, manual.
Laser: 4x50 mW/655 nm + 2x50 mW/405 nm
Laser class 3B

RJ-LASER
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Distributor
The non-invasive laser blood irradiation is primarily performed with the LightNeedle 300 “mini”. Beside 4x655 nm red the LightNeedle 300 offers as well 2x405 nm blue-violett (strong absorption by hemoglobin).

The non-invasive laser irradiation of blood is an ideal systemic therapy, which will supply photon energy directly to the body. Because the non-invasive method can be considered as risk-less, it may be used on almost any patient and environment.

Crucial to the success of the therapy is the availability of vessels, so the tongue and back of the knee (poplitea), and possibly the forearm (radial artery) are irradiated.

The tongue and the knee applicator is designed so that the vessels are reached optimally and the patient may place the probe in a pleasant position.

For irradiation of the vessels of the poplitea and radial artery the fokussed probe 516C (superpulse) is recommended as well.

The non-invasive irradiation of blood offers many advantages compared to the invasive method:

- fast and easy to use
- delegable
- no pain
- no risk
- pleasant for the patient and therapist
- economic (almost no consumables)

Die LightNeedle 300 works as a probe for Physiolaser. All programs and bio-frequencies are available for therapy. The treatment is simple:

- place the applicator
- select continuous beam or frequency mode (ideal for systemic therapy is e.g. Self-Heal frequency acc. to Bahr.)
- therapy duration 10-20 minutes
- maybe simultaneously local irradiation of organs

Beside the non-invasive laser irradiation of blood you can use the LightNeedle 300 „mini“ for other laser applications (e.g. acupuncture, pain therapy and many more).