Laser Therapy Diagnosis
Medical lasers can be divided into two main groups:

1. **Lasers for surgery**
   Surgical lasers belong to laser class 4 and offer between 2-100 W (cw).

2. **Lasers for biomodulation (LLLT and HLLT)**
   Generally, these lasers belong to class 3B (cw and pulsed/superpulsed) but to cl. 4 as well with large spot size.

**The natural and holistic way:** RJ low-level laser (LLLT) and high level laser (HLLT) devices are made for non-invasive RAC diagnosis and therapy, e.g.

- Body acupuncture
- Ear acupuncture
- Orthopedics
- Sports medicine
- Physiotherapy
- Dermatology
- Odontology
- Photodynamic therapy
- Photodynamic disinfection

The RJ research department will supply detailed therapeutic information on demand.
The RJ-LASER concept is based on more than 32 years of experience in laser research, development and production of innovative medical laser devices for diagnostic and therapeutical purposes. RJ laser devices* stand out due to their many features, modern ergonomic design, and high level of efficiency.

**RJ has the perfect laser for RAC diagnosis and therapy, for every LLLT indication, in every price range.**

<table>
<thead>
<tr>
<th>Handylaser trion LaserPen</th>
<th>Points, small areas, ear and body acupuncture, odontology, physiotherapy. Compact models for mobile use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polylaser trion</td>
<td>Medium, large areas, for skin care and more.</td>
</tr>
<tr>
<td>LightStream</td>
<td>Medium, large areas, deep penetration, cl. 4 therapy system, physiotherapy, orthopedics, chiropractic.</td>
</tr>
<tr>
<td>Physiolaser olympic</td>
<td>Points, small, medium, large areas, universal diagnosis and therapy system, for ear / body acupuncture, physiotherapy, orthopedics, dermatology and research.</td>
</tr>
<tr>
<td>LightNeedle</td>
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<tr>
<td>Photonic Satellite</td>
<td></td>
</tr>
<tr>
<td>Photonic 500</td>
<td>Small, medium, large areas, physiotherapy, orthopedics, dermatology</td>
</tr>
</tbody>
</table>

*All RJ laser devices are subject to a full two year quality warranty.
RJ-LASER - Advantages

RJ laser devices utilize the latest hardware and software technology. As a result the RJ laser devices are compact, portable and with an almost unlimited range of functions, as well as high level of power and frequency precision.

Depending on the model, RJ laser devices are programmable and offer preset therapy programs. You can even configure your individual therapy settings depending on pathology and individual protocols. An extensive frequency memory lets you apply the latest research results to your course of therapy.

Enjoy relaxing therapy, because the modern ergonomic design means comfortable work. Precision in its finest form.

RJ laser devices offer comprehensive accessories, such as laser probes for spot and surface treatment, fiber optics and special tripods. The wavelengths used by RJ laser devices are within the “optical window” of minimal water, hemoglobin and melanin absorption, resulting in deeper penetration. RJ offers wavelengths from visible blue 405 nm to invisible infrared 904 nm.

Many interchangeable laser tips are available, adapted to special areas for easy operation. For larger surfaces, mouth/throat, trigger points, acupuncture points:

- a) point applicator
- b) medication applicator
- c) convex lens
- d/e) dental applicator, fibre attachment
Intelligent therapy software

RJ Laser devices work with intelligent therapy software to provide easy operation, the highest precision and safety and bio-functional therapy information, giving you the flexibility to upgrade or to apply the latest research results to your therapy.

- Free programmable functions, individual protocols
- Continuous beam, universal frequency range
- Nogier/Bahr/Reininger bio-frequency system
- Frequencies of chakras (BAHR)
- Meridian frequencies (Li, St, He, Ci, Li, Gb, Ki, Bl, Pa, 3H, Si, Lu)
- Many therapy programs

With just one hand on the device, you can select the frequency for the body part and pathology in question. Example – Nogier frequencies:

A = Acute conditions, inflammation, rheumatism, allergies, scars
   Body openings  Back Shu points

B = Chronic conditions, metabolism, cell nourishment, ulcers, arthroses
   Abdomen  Sedation points

Depending on your configuration, RJ laser devices offer:

- Up to 3000 mW/90 W (various therapeutic wavelengths)
  Select the power in mW or W, depending on the equipment.
- Up to 999 Joules (automatic calculation)
  The energy value automatically determines the correct exposure time.
- Almost unlimited therapy time
  Acupuncture points: 15 – 30 sec.; larger areas: 10 – 20 min.
- Individual settings and your personal protocols
  With the RJ software you can individually set time/Joule/power, protocols, language, therapy signals, laser test and more.
Body/ear acupuncture and organ measurement
You can take **two kinds of measurements** with RJ-LASER devices:

1. electronic diagnosis (digital measurement) acc. to VOLL
2. NOGIER frequency diagnosis VAS/RAC.

The electronic measurement produces data that enables an analysis and gives you a comprehensive overview of the electrical condition of the patient's organ points. You can determine:

- active electric points
- degree of deviation
- most active points
- gold/silver points

According to electro acupuncture (EAV) you can localize and measure the trigger/organ/acupuncture points (ear and body) and also obtain values to assist in prevention and monitoring therapy progress.

**Results are indicated in 3 ways:**

1. **acoustically** (rising tone)
2. **visually** (bar graph)
3. **numerically** (1-100)

**Frequency diagnosis:**
The pre-programmed frequencies enable you to make a (RAC) diagnosis according to NOGIER (**pulse controlled, energetic diagnosis and therapy**).
The detected frequencies can be used directly in therapy, providing a reduction in therapy time and energetic balance.
Glide the sensor tip smoothly over the skin, and the maximum value of a measurement will temporarily be saved in the display for precise analysis and evaluation (sample and hold).

Later you can transfer the value to the RJ file card, which gives an overview of the patient’s energetic condition in graphic form.

**RJ file card**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Lung</td>
<td>Lymph</td>
<td>Large int.</td>
<td>Nerves</td>
</tr>
<tr>
<td>Circulation</td>
<td>Allergy</td>
<td>Parenchyma</td>
<td>3-Heater</td>
</tr>
<tr>
<td>Heart</td>
<td>Small int.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*= abnormal values*
The sample and hold function also provides an analysis of the electric condition of the organ points in the ear. This method is quick, simple and precise.

Analysis of the organ points in the ear

According to electro acupuncture (VOLL/NOGIER), the values for these points indicate the condition of the corresponding organ or body part.

<table>
<thead>
<tr>
<th>Point/Organ</th>
<th>Value</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liver</td>
<td>45</td>
<td>A, B</td>
</tr>
<tr>
<td>Stomach</td>
<td>107</td>
<td>C</td>
</tr>
<tr>
<td>Lung</td>
<td>186</td>
<td>A</td>
</tr>
</tbody>
</table>

RJ-File card

In acupuncture specific points and zones in the ear represent, e.g. internal organs.
The Handylaser trion is the ideal minilaser. Streamlined and compact it offers extensive functions. The right laser for everyone who wants powerful therapy and point detection for acupuncture, all in a small package.

It already is programmed with 7 Nogier and 7 Bahr frequencies, as well as a continuous beam and automatic energy timer (40 sec./2 J), RAC diagnostic button (5 mW), acoustic 5 seconds counter.

Of course it also includes an easy-to-use diagnostic component (acoustic indication, light-diode chain) and precision optics for high lumination (fine laser output, Ø 1.5 mm), ensuring precise focused irradiation (auricular medicine, joints etc.).

The Handylaser trion is delivered with long-lasting NiMH rechargeable batteries.

Delivery contents:
Main unit, 3 NiMH rechargeable batteries, charger, hand electrode, two carrying case, safety goggles, technical manual, connection cable, laser warning sign. Laser class 3B.
The LaserPen is a modern high-end laser using the latest technology that fills the gap between the Handylaser and the Physiolaser. It is programmable and offers NOGIER/BAHR/REININGER meridian and chakra frequencies.

The LaserPen is available with superpulse 40 W/904 nm GaAs (pulse width 200 nsec.) and as a cw laser with the range of 50-500 mW/810 nm or other wavelengths e.g. 638 nm, 785 nm, 904 nm.

The LaserPen is available in two versions to meet your budget and therapy requirements:
1. practice version (basic)
2. expert version (comprehensive functions).

Delivery contents:
Main unit, power station, power supply, point applicator, carrying case, two safety goggles, technical manual, laser warning sign. Laser cl. 3B
The Polylaser trion family is a compact "laser shower" for area therapy. You’ll be surprised how simple they are to use, the easy setting, ergonomic design and light weight enable you to work effortlessly.

12 laser diodes quickly irradiate an area of about 20 cm². Two wavelengths are built in to optimize the therapy for deep and superficial stimulation: 8 x 50 mW/785 nm + 4 x 50 mW/655 nm (total 600 mW). Various programs and individual settings are available.

The radiation surface is covered with an innovative Photon-Reflection Foil to minimize the loss of photon energy and enhance the laser’s effect. The photons are reflected and multiplied so that more photons will penetrate into the skin.

Delivery contents:
Main unit including power supply, carrying case, two safety goggles, technical manual, laser warning sign. Laser cl. 3 B
The LightStream | High Power is an innovative class 4 therapy laser and offers up to 20 W laser power, so-called HLLT (High Level Laser Therapy). The therapy with the LightStream works tremendously fast and penetrates deeply. It can be used for any indication in the field of biomodulation/biostimulation (but not for acupuncture).

The therapy with the LightStream is non-invasive, gentle, relaxing and refreshing. During the treatment the patient feels an intensive deep warming sensation, a biological "flooding of light" which will lead to increased cell metabolism and improved blood circulation.

**LightStream | High Power (stationary)**

- Wave length: 530 nm/670 nm/808 nm/915 nm
- Power: 17 Watt cw – 20 Watt intense pulse (IP)

**LightStream | High Power (mobile)**

- Wave length: 808 nm
- Power: 5 Watt cw – 10 Watt intense pulse (IP)
The LightStream | High Power consists of a control unit plus a stationary laser device with four wavelengths transmitted via fiber optics or scanner and/or a mobile laser with one wavelength.

LightStream is available in three versions: ortho/wave/vet.

The LightStream is fully programmable, has optimized application programs and a complete range of proven bio-frequencies (NOGIER / BAHR / REININGER etc.), individual protocols.

The LightStream offers different optional heads for the zoom probes for correct therapeutic application. The probe head design allows individual therapy regarding body size, treatment area, target area (superficial or deepest penetration).

Pulse shapes for gentle and effective therapy

Delivery contents
LightStream, base unit, laser device, power supply, two protection googles, carry case, user manual, therapy handbook, laser warning sign. Laser class 4
The fully programmable *Physiolaser olympic* is a high-end laser that offers **everything you need for comprehensive therapy and diagnosis**. The previously unavailable range of functions in this compact package makes it the worldwide leading system.

- **single and multi-cluster probes** (LLLT and MLLT up to 3000 mW)
- **LightNeedle module** (6 or 12 channels with fiber optics)
- **scanning head** (Satellite, similar to the Photonic)
- **diagnostic modules** (body acupuncture, gold/silver points in the ear)
- **Therapy programs, individual protocols and many more**

The special laser output with precision lens for high lumination and optional adapters enables deep penetration (muscles, trigger points, joints, wound healing).

The *Physiolaser olympic* comes with a built-in high-power rechargeable battery (perfect for mobile outdoor use), but it can be connected to an outlet as well.
The universal laser for all indications of LLLT and all grades of auricular medicine and acupuncture

Fits in one hand, made for mobile operation, versatile and easy to operate.

- Use probe separately or both at the same time (point/cluster).
- Up to 500 mW or with the famous 90 W superpulse (pulse width 200 nsec.).
- Wavelengths: UV, visible red (638 nm) to infrared 810/904 nm.
- Settings are displayed clearly on the touch screen and probe. (time/energy/power/frequency).
- Exchangeable probe tips for safe and precise application.

Delivery contents:
Laser main unit, charger, safety goggles, warning sign, technical manual, two safety lock, key, carrying case.
Laser class 3B

Probes are optional.
The **Satellite** is a scanning laser, perfect for the irradiation of small and large body parts. It works as a "probe" connected to the Physiolaser. All basic settings are made on the touchscreen of the Physiolaser e.g. time, energy, modulation frequency, therapy program, individual protocols etc. Fast setting of the beam size and diameter (axis X/Y) according to the body part with only two buttons on the front panel.

The modular concept offers many advantages:

- highest mobility
- handheld or stationary therapy
- minimum space required
- extension of your therapy concept
- economic investment
Deep therapy and stimulating spin modulation
(right turn)

The **Satellite** is portable and can be installed quickly in even the smallest cabins. As the Photonic, the **Satellite** can produce a large variety of **pulsed areas**, which can be specified quickly and simply. Select the size based on body part/shape or wound:

- Point/circle, ellipse
- Rectangle
- Line, X-axis and Y-axis

Treatment of the neck/shoulder

The compact design means **nearly effortless operation, comprehensive, fast and precise**. In spite of its high power and extensive functions, the extremely flexible **Satellite** fits almost anywhere. It is portable and can be installed quickly in even the smallest treatment rooms.

Treatment of the lumbal region

**Technical data**
- Laser 1: 638 nm/150 mW, pilot beam 5 mW
- Laser 2: 810 nm/500 mW
- Input voltage: 110-240 V/50-60 Hz
- Laser cl. 3B

**Delivery contents:**
- Main unit, stand or universal arm, power supply, sinterface cable, safety lock.
The LightNeedle laser device works in conjunction with the Physiolaser and takes advantage of the therapy programs and protocols. It is available in two versions, with 12 or 6 outlets. Simply attach it to the laser outlet and start the therapy. The operation is optimized for daily clinical use: fast and easy, channel selection in groups, reliable and safe photon transfer, individual protocols!
The innovative acupuncture
and therapy of deep tissue layers

The LightNeedle offers precise and strong laser stimulation of points and deep tissue layers and it can be widely used for many therapeutic applications.

Patented safety tip

The patented safety tip offers for the first time a stable and secure treatment. Conventional systems are attached straight and causing unstable contact because the tip suffers under the weight of the fiber and tends to lose contact and its position.

The patented safety tip of the LightNeedle is placed flat onto the skin and has a beam outlet of 90°. The tip can easily placed on any body part, may it be small or large, front and back at the same time, the patient can get a treatment in any position.

Easy and economic fixation of the safety tip with standard medical tape!

The main advantages

- modular system
- 12 x 50 mW/655 nm
- special fiber optic (stable)
- standard tape
- various biofrequencies
- compact and mobile

Delivery contents:
Main unit, 12 fiber optics and applictors, power supply, technical manual, holder, carrying case. Laser class 3B.
LightNeedle: It’s simply better!

The LightNeedle system offers a large variety of therapeutic applications. It is easy to use: Select the time and attach the patented tip of the fiber optic to the body or acupuncture points.

LightNeedle acupuncture is relaxing and painless. It offers a long lasting stimulus* and is widely accepted by the patients** and seems to be even more effective than conventional needle acupuncture. Because once the fiber is placed no further manipulation is required.

For the widest range of LLLT applications

The LightNeedle therapy can be used for many medical laser applications except on open wounds (laser shower or Photonic is required). The tip can be positioned perfectly and allows that the beam easily penetrates deeply into the body.

- Acupuncture
- Pain management
- Trigger points
- Joints
- Tendons (e.g. carpal tunnel)
- Muscular skeletal system
- Nerves

* Spectroscopy 16 (2002) 335-342, page 6
Near-infrared spectroscopy for objectifying cerebral effects of needle and laser needle acupuncture Gerhard Litscher, Dep. of Biomedical Engineering/Research in Anesthesia/ Critical Care, University of Graz, 8036 Graz, Austria
Detlef Schikora, Department of Physics/Optoelectronics, University of Paderborn, 33095 Paderborn, Germany
In case of lumbal pain place the fiber tips at and around the nerve outlet. It many cases it is recommended to place several tips along the nerve. Treatment duration 15-25 minutes.

** Patients' sensation during and after laser needle versus metal needle treatment. van Amerongen KS, et al.**

RESULTS: The common metal needle technique was well known by the patients in comparison to the laser needle method (p<0.0001***). Laser needle acupuncture is a method which is painless (p<0.0001***), energy inducing and relaxing (p=0.0257*) which leads to a warming sensation (p=0.0009***) during treatment.
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 laser blood irradiation is an ideal systemic therapy, in order to supply photon energy directly to the body. Because the non-invasive method can be considered as riskless, it may be used on almost any patient.

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.

The non-invasive irradiation 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)
Non-invasive laser blood irradiation

The tongue applicator has an angled beam outlet (90°) and is directed to the vessels in order to optimise the energy supply.

The tongue applicator is kept narrow and shallow for comfortable position under the tongue.

The directed beam of the knee applicator will reach the blood vessels in the popliteal optimally.

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

The patient can place the leg in a relaxed condition as well on the knee applicator.
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 cw or frequency mode
- therapy duration 10–20 minutes

Beside the laser irradiation of blood the LightNeedle 300 can be used for other applications (e.g. acupuncture, pain therapy).

The laser irradiation of blood is 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, allergy, dyslipidemia, depression, general stimulation of the organism.

Originally, it has been used for cardiovascular diseases (developed in Russia for HeNe laser in 1981 by Meshalkin and Sergievskiy).
Effects of Intravascular Laser Irradiation of Blood in Mitochondria Dysfunction and Oxidative Stress in Adults with Chronic Spinal Cord Injury
Shih-Fong Huang, M.D.,1 Yun-An Tsai, M.D.,1 Shi-Bei Wu, Ph.D.,2 Yau-Huei Wei, Ph.D.,2,3, Po-Yi Tsai, M.D.,4 and Tien-Yow Chuang, M.D.4

Abstract
Objective: This study investigated the clinical effects of intravascular laser irradiation of blood (ILIB) therapy on oxidative stress and mitochondrial dysfunction in subjects with chronic spinal cord injury (SCI) resulting from trauma.

Background data: Little is known about how ILIB may generate antioxidant defenses in humans, and there is still a lack of randomized, sham-control studies to indicate its influence on different metabolic pathways.

Methods: Twenty-four chronic SCI subjects (assigned to a sham and a study group), and 12 normal subjects were recruited. The study group underwent 1 h daily of ILIB for 15 days over 3 weeks. The sham group underwent ILIB with no laser power.

Results: Baseline measurements established higher oxidative stress and mitochondrial dysfunction in the SCI subjects than in the normal subjects. At day 15 of therapy, the study group revealed a significantly higher mitochondrial DNA (mtDNA) copy number, white blood cell adenosine triphosphate (WBC ATP) synthesis, and total antioxidant capacity (TAC) with significantly reduced malondialdehyde (MDA), than did the sham group. The study group intragroup comparison revealed significantly increased mtDNA copy numbers, WBC ATP synthesis, and TAC, with significantly reduced MDA, compared with its baseline measurements. The sham group intragroup comparisons demonstrated no statistical differences. Low-density lipoprotein (LDL) in the study group was significantly reduced at days 10 and 15, with significantly higher highdensity lipoprotein (HDL) at day 45.

Conclusions: Our study results contribute to the knowledge about the effectiveness of ILIB in alleviating oxidative stress and mitochondrial dysfunction in chronic SCI patients.
The Photonic 500 is a software-controlled scanning laser combining maximum power of 500 mW (infrared) plus 150 mW (red) with compact design. **It sets new standards in form/size, performance and function.**

The Photonic 500 was designed primarily for area therapy. It easily irradiates a surface of any size, transmitting the focused laser energy quickly and effectively. Point therapy with the optional laser probe is also possible, such as for joints, trigger points, painful spots.
Deep therapy and stimulating spin modulation
(right turn)

The compact design means nearly effortless operation, comprehensive, fast and precise. In spite of its high power and extensive functions, the extremely flexible Photonic 500 fits almost anywhere. It is portable and can be installed quickly in even the smallest treatment rooms.

The new therapy programmes make it easier to delegate therapy since the optimum frequencies, output and joules are already predefined. You or your assistant simply press a button to select the desired indication and the device automatically switches off once the parameters of the automatic time/power/Joule calculation are reached.

The Photonic 500 can produce a large variety of pulsed areas, which can be specified quickly and simply. Select the size based on body part/shape wound:

1) Point/circle, ellipse  2) Rectangle  3) Line, X-axis and Y-axis

Delivery contents:
Main unit, stand, transformer, two safety goggles, warning sign, technical manual, safety lock, key. Laser cl. 3B

Technical data
Laser 1  638 nm/150 mW, pilot beam 5 mW
Laser 2  810 nm/500 mW
Input voltage  110–240 V/50–60 Hz

Therapy example: Treatment after injury of the face. The centre of the wound was irradiated vertical to increase healing and lips and mouth received horizontal irradiation to reduce swelling and pain. Pulsating circular irradiation for the joints on hand and fingers.
Optional Probes
Photonic / Physiolaser

Diagnostic probe/hand electr.
Large display for detailed and fast reading, buttons for skin sensitivity, exchangeable tips.

Single probe, cw/superpulse
Large display for detailed and fast reading, buttons for therapy selection, 200-500 mW and 90 W/904 nm, 200 nsec..

Multi-cluster probe, cw
Four models are available, each probe has 12 laser diodes + 12 LEDs (red or ultra violet) up to 3000 mW.

Multi-cluster probe, pulsed
Five laser diodes (superpulsed), each 60 W/904 nm, pulse width 200 nsec., movable tips or focussed beam.

Photonic Satellite
The mobile scanner with 500 mW/810 nm/150 mW/638 nm. Highest mobility, fast and easy to apply.

LightNeedle
12 or 6 x 50 mW/655 nm, special fiber optics, patented safety tip, sublingual applicator, vessel applicator.
RJ laser devices put you at the forefront, giving you all the options. As a market leader, we offer tomorrow's technology today. Our products are proven thousands of times and have been trusted by practitioners since 1982.

RJ laser devices are designed in cooperation with experienced therapists and developed using the latest medical and technical research. Treatment with RJ laser devices affect the body's metabolic and control functions at two levels:

1. Energy supply – 2. Transfer of frequency information

The primary factor in the laser's operation is cell stimulation. Studies have verified that photoreceptors (cytochromes, flavoproteins) can absorb laser energy, which, e.g. stimulates the respiratory chain, so-called oxidative phosphorylation.

The secondary factor is the transfer of information by means of the monochromatic, coherent laser beam. This process requires the availability of exact bio-frequency information. The exact bio-frequencies are preset in the RJ laser devices and make it possible to manage the therapy to produce optimum results (resonance phenomenon).

RJ offers comprehensive training seminars and laser support. Please visit our website www.rj-laser.com to get the latest therapy and product information and download research data, clinical data and manuals.

RJ has the perfect laser for your diagnosis and therapy. Convince yourself, put it to the test.

Laser warning signs on the devices:
Day 1: The morning after the accident. The wound was still wet without any closure, severe pain. The lip mouth area was swollen and jaw movement obstructed.

Day 2-3: Completely covered with scurf, dry wound less edema.

Day 4: Reduced wound size, reduced edema.

Day 6: The crust already started to fall of. Beside some redness the skin was normal.

Day 8: The last two days no laser therapy. Except of a tiny spot which is still fading away, the skin and deeper tissue layers are normal in color and size and scar free.
Female patient suffered under acute burns (2\textsuperscript{nd} and 3\textsuperscript{rd} degree) caused by a gas explosion at home. She was admitted to the hospital for first aid two days after the accident. After the first day of treatment the patient was almost pain-free and regeneration of the skin began (the patient felt soft healing sensations) and she was able to start to move her arm freely.

Ben Hayan Medical Center, Dr. med. Abdel Tawil
Amman 11194, Jordan, Shmaisani
June 2005  
Device: Physiolaser olympic + Polylaser trion

**Before laser therapy** (02.07.2005).

**After laser therapy** (20.07.2005).
Almost complete healing of the skin after only two weeks treatment.
RJ-LASER GmbH produces and markets innovative medical laser devices for non-invasive diagnostic and therapeutical purposes. RJ-Laser devices stand out due to their many features, ergonomic design, and high level of efficiency.