EUFOTON

EUFOTON, founded in Trieste in 1997, designs, manufactures, and markets portable surgical and medical laser instruments with semiconductor sources (diodes) that are not subject to problems related to wear, continuous maintenance, and consumption of active materials. The company **has implemented a complete technological innovation** compared to the previous lasers - made mostly of sources comprised of gas hoses - and holds a prominent position in national and international markets.

EUFOTON lasers are for:

- most medical specialities (neurosurgery, vascular and plastic surgery, dermatology, orthopaedics, dentistry)

- Beauty-Physiotherapy Centres (in such cases, mandatory medical liability applied in suing the instrument).

EUFOTON
throughout
the world

THE COMPANY IS CURRENTLY ABLE TO COVER THE ENTIRE COUNTRY OF ITALY THROUGH A NETWORK OF AGENTS AND IS PRESENT IN OVER 50 COUNTRIES.

The company also **contributes to the professional's success with training and upgrade courses** along **with the support of marketing materials** dedicated to the medical studio and medical treatments performed.

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MY DISK®
Spine medical laser

EUTHERMIC DISCOLYSIS FOR THE PERCUTANEOUS TREATMENT OF DISCAL HERNIAS

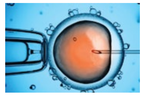
The Bellini family has been operating in the biomedical industry for 3 generations, since 1968.
The Bpb medica philosophy is to grow along with the needs of patients, doctors and all hospital operators.

BPB MEDICA designs, manufactures and markets biomedical devices for the following fields:

SPINE/VERTEBRAL HEALTH

BIOPSY

IVF and GYNECOLOGY



INTENSIVE CARE

Backed by the experience acquired by the company's specialized technical personnel and thanks to newly-adopted technologies, **BPB MEDICA** has quickly managed to make a name for itself on the domestic and international markets.

BPB MEDICA is closely focused on the service provided to its customers and its primary goal is the production quality of its devices.
In this respect, 100% controls are performed – from the raw materials (incoming), to the equipment used, through to the finished product.

Our company is organized in such a way as to always be able to adapt to the specific requirements of our customers – dealers and makes **every type of device as OEM**, with the possibility of developing new devices according to individual needs.

A crucial aspect of **BPB MEDICA** is our production process, which has been gauged, **agreed and planned with our customers.**

All this has enabled **BPB MEDICA** to immediately obtain EC and ISO 13485 certifications from the TÜV Product Service GmbH Institute of Munich, and the company production facility is FDA registered.

At **BPB MEDICA**, research is ongoing and the company avails itself of the scientific consultancy of doctors specialized in the various branches of medicine, in order to better qualify and refine its production standards and favour the development of new products.
We regularly support our customers from both a technical and sales viewpoint, organizing training sessions in the customer's/distributor's facility.

For a better and incisive customer's support for "MY DISK", **BPB MEDICA** has established an important partnership with **NEXUS SRL.**

NEXUS SRL is in charge of:
- Training
- Educational
- Technical support
- Assistance and support in Operating Theatre
With qualified personnel in the PLDD Laser technique and several years of experience in this field.

NEXUS
healthcare distribution

HISTORY OF PLDD

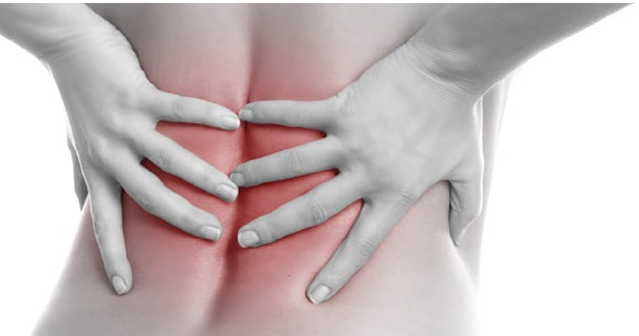
PROFESSOR DANIEL S. J. CHOY OF COLUMBIA UNIVERSITY IN NEW YORK INVENTED PLDD IN THE MID 80S

Professor **Daniel S. J. Choy** of Columbia University in New York invented PLDD in the mid-80s. The procedure was in an experimental phase and the American Food and Drug Administration (FDA) did not approve it for current clinical use until 1991. Since then, Professor Choy has performed **more than three thousand PLDD** operations treating cervical, thoracic, and lumbar disc hernias.

Local anaesthesia is used for PLDD, which allows the treatment of patients suffering from conditions that increase risk in general anaesthesia, such as in elderly patients.

PLDD allows **rapid recovery of the patient's daily and work activities**, usually in 15/20 days. The fact that there is no need for surgical incisions, detachment of muscles from the bone structure, or even minimal removal of the vertebral hemilamina **means that the typical problems found with "classic surgery" are absent**, such as the formation of periradicular adhesions, chronic pain from muscle damage, or instability of the spine resulting in the need for reoperation.

Contraindications for PLDD are calcified hernias, black disc, and migrated hernias. Ultimately, PLDD, according to Choy, is **currently the most minimally invasive** and, at the same time, **most conservative method in treating intervertebral disc hernias.**



MY DISK EUTHERMIC DISCOLYSIS
USING LASER DIODES

LASEmaR 980R® is portable, easy to use with its pre-set software programs, and does not require maintenance or materials.

MY DISK®
Spine medical laser

IT IS A MINIMALLY INVASIVE PROCEDURE

MACHINE TECHNICAL CHARACTERISTICS

Wavelength	980 nm
Laser	High Power Diode (GaAs)
Power	15 Watt
Preselected programs	Advanced software with certified operating protocols that can be edited completely by the operator.
Impulse duration (Ton - Toff)	Selectable from 1 ms to 9000 ms - step 1 ms
Weight and dimensions	3-5 kg 25 x 15 x 22 (cm)

WHAT ARE THE INSTRUMENTAL ADVANTAGES?

MEMORY: all treatment protocols are pre-set in the software.

ACOUSTIC SIGNALS: the software allows you to set target fluencies or energies and notifies the operator when they are reached through acoustic feedback and with information regarding the dosages reached, without the need to divert attention from the surgical field.

PATIENT MANAGEMENT: the new software can be set to create a database of patients treated, with the data and treatments performed in chronological order. The database can be updated, printed, and deleted.

SELF-DIAGNOSIS SYSTEM: the primary circuits are monitored continuously by a safety system that informs the user of any anomalies and automatically blocks emission if necessary.

WHAT ARE THE CLINICAL ADVANTAGES?

- Standardized operating protocol
- Procedure kit ensuring efficiency and safety
- Vaporizes without burning (No Necrosis)
- No risk of damage to the cartilaginous plates
- Mini-invasive percutaneous access (18/20 g atraumatic needle)
- Recognition of the operation by the NHS and insurance
- No heat dispersion
- Immediate patient recovery

WHAT ARE THE ADVANTAGES FOR THE PATIENT?

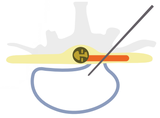
- Less pain during and after the operation
- Quick procedure
- Anaesthesia: local/sedation
- No sutures
- Quick recovery of activity

MY DISK allows the treatment of lumbar/thoracic and cervical disc hernias (excluding the T1-T5 segment) through the introduction of a **thin 18/20 G needle in the area involved.** This must progressively reach the inside of the nucleus pulposus of the intervertebral disc. Through the needle, a 300/400 um thin **optical fibre laser** is placed in **contact with the nucleus pulposus and "laser working"** begins.

The power of the single impulse laser, the number of impulses, the overall power delivered, and the pauses between the individual impulses are identified and the laser determines the "VAPORIZATION" of a part of the nucleus pulposus.
If the inclusion criteria are followed, **the results** of My Disk **are about 90%** (and for patients who do not obtain a result with My Disk, the use of a standard surgical procedure is not precluded) and the complications are 0.5%.

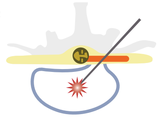
My Disk is a **minimally invasive procedure** that uses the energy of the **LASEmaR 980R®** to absorb the water contained in the herniated nucleus pulposus. The condition is not automatically resolved but **the pressure inside the discs (lumbar, thoracic, or cervical)** and on the spinal nerve is reduced, immediately improving the symptoms.

1

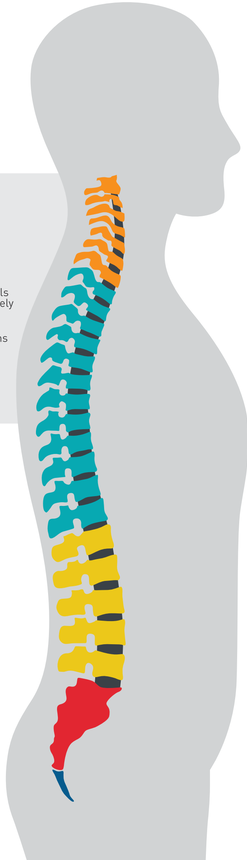


Introduction of the needle in the intervertebral disc

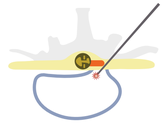
2



Application of energy in the centre of the intervertebral disc



3



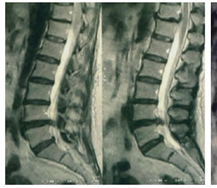
Application of energy near the hernia

4

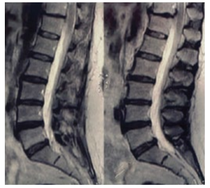
Reduction of intra-disc pressure at the end of the treatment

WHAT WE TREAT:

My Disk: Contained cervical and/or thoracic hernias
My Disk Combined: Contained, expelled lumbar hernia (non-calcified and non-migrated)



MRI of a patient with an L4-L5 expelled hernia before the combined treatment



MRI of the same patient 6 months later

MY DISK COMBINED METHODS ASSOCIATED WITH CHANNEL LAVAGE (FOR LUMBAR DISCOPATHY)

It allows you to carry out a specific protocol designed to perform **a "lavage" of the inflammatory and toxic metabolites** in the epidural space , this resolves the chemical problem and the mechanical one by pressure.

For the chemical problem, **in the event of acute lumbar pain and acute sciatica**, when the pain is intense **channel "lavage" is one of the best therapeutic procedures to resolve it.** With a percutaneous approach using a 16-gauge Tuohy needle, **a mix of anaesthetic and cortisone is injected to achieve the therapeutic effect.**

In most cases, there is no collateral effect, but during the injection there can be a heavy feeling in the lumbar region and a temporary increase in sciatic pain (only during execution of the infiltration) , that then disappears immediately after infiltration is complete. The day following the injection there may be reddening of the cheeks due to the cortisone (usually occurring in women) , that disappears within 24 hours. Pain relief may be immediate or gradual, within a few weeks.

The purpose of My Disk COMBINED, once the disc problem is resolved (vaporizing part of the nucleus pulposus), **is to be able to treat hernias caused by compression and nerve irritation.**