Percutaneous Laser Disc Decompression
Minimally Invasive | Fast Healing

Wuhan Dimed Laser Technology Co., LTD.
PLDD - Percutaneous Laser Disc Decompression

Percutaneous laser disc decompression (PLDD) is a procedure in which herniated intervertebral discs are treated by reduction of intradiscal pressure through laser energy. This is introduced by a needle inserted into the nucleus pulposus under local anesthesia and fluoroscopic monitoring. The small volume of nucleus vaporized results in a sharp fall of intradiscal pressure, with consequent migration of the herniation away from the nerve root. It is firstly developed by Dr. Daniel S.J. Choy in 1986.

PLDD has proven to be safe and effective. It is minimally invasive, is performed in an outpatient setting, requires no general anesthesia, results in no scarring or spinal instability, reduces rehabilitation time, is repeatable, and does not preclude open surgery should that become necessary. It is an ideal choice for patients with poor results in non-surgical treatment.

“When Should Consider Minimally-Invasive PLDD Procedure

The PLDD procedure is specifically designed and developed for the cervical and lumbar indications, including:

- **Cervical problems:**
  - One or more cervical disc herniations
  - Neck pain, shoulder pain, bilateral numbness, dizziness and other symptoms.

- **Lumbar problems:**
  - Restrictive disc herniation on CT or MRI
  - No intervertebral disc calcification, free, prolapse
  - Straight leg elevation test positive
  - Six weeks of conservative treatment is invalid

"A needle is inserted into the affected area of the intervertebral disc and laser fiber is injected through it to burn the nucleus pulposus with a laser."

*Neck and back pain solved without surgery!*
Reliable PLDD Laser Manufacturer

Dimed Laser is dedicated in the R&D, production, marketing and sales of medical laser systems. Our laser products are manufactured with the latest laser techniques and quality components what are of world top brands.

- Quality aluminum alloy housing
- Compact and modular design, quiet working
- Large and intuitive color touch screen
- German diode and German laser technology
- Provide optimal wavelength for PLDD
- Professional preset treatment protocols
- Flexible power adjustment range from 0.1w to 60w
- Support custom settings
- A complete set of accessories for PLDD

Benefits of Using Our Laser System for PLDD Surgery

- Local anaesthesia, mini-invasive, painless, non-bleeding
- Short operation time with high security and high effectiveness
- Rapid recovery, fewer complications
- Can be used simultaneously for several treatments
- Guaranteed microsurgery precision and stability

www.dimedlaser.com
Professional Accessories for PLDD Procedure

Dimed PLDD laser system is specially designed for PLDD mini-invasive surgery, providing a full set of high quality standard and optional accessories, such as puncture needle, Y-valve, optical fiber, safety goggles, footswitch, fiber cutter, carry case, cart and etc.

The sterile kit include a 400 micron bare fiber with jacket protection, 2 sizes of 18G needles (length 10cm/15cm) for your choice of entry, and a Y Connector allowing fiber entry and suction. The connector and needles are individually packed to enable maximum flexibility in treatment.

Technical Specifications

<table>
<thead>
<tr>
<th>Product Model</th>
<th>Berylas</th>
<th>Harlas</th>
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<tbody>
<tr>
<td>Laser Type</td>
<td>GaAlAs Diode Laser</td>
<td>GaAlAs Diode Laser</td>
</tr>
<tr>
<td>Wavelength</td>
<td>980nm</td>
<td>980nm/1470nm</td>
</tr>
<tr>
<td>Maximum Power</td>
<td>15w</td>
<td>15w/30w</td>
</tr>
<tr>
<td>Operation Mode</td>
<td>CW, Single or Repeat Use</td>
<td></td>
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<tr>
<td>Pulse Duration</td>
<td>10us - 3s</td>
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<tr>
<td>Repetition Rate</td>
<td>0.2Hz – 50KHz</td>
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<tr>
<td>Pilot Beam</td>
<td>Red Diode Laser Of 650nm, Power&lt;5mW</td>
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<tr>
<td>Control Mode</td>
<td>True Color Touch Screen (7 inches, resolution 600*1024)</td>
<td>Medical Fibers With SMA905 Connector</td>
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<tr>
<td>Transmission System</td>
<td>Medical Fibers With SMA905 Connector</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>160(W)*180(L)*235(H)mm</td>
<td>230(W)*180(L)*135(H)mm</td>
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<tr>
<td>Weight</td>
<td>2.1kg</td>
<td>3.5kg</td>
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