



VELASII

Type	VELASII-30A/B/F
Wavelength	810nm/980nm/1064nm
Maximum Power	30W
Operation Mode	Cw, Single Or Repeat Pulse
Pulse Duration	10μs-3s
Repetition Rate	0.2Hz-20KHz
Pilot Beam	Red Diode Laser Of 650nm, Power<5mW
Control Mode	Touch Screen, 8" True Color
Dimension	200(H)*400(W)*385(L)mm
Lifetime	Over 20000 hrs
Warranty	12 months free warranty, 5 years technical support
Weight	12Kg
Packing	Carry case with carton

ABOUT GIGAA

GIGALASER is specializing in the design, manufacture and sale of medical diode lasers and accessories. Our products cover some disciplines of human, dental and veterinary medicine. For each discipline, a broad range of high quality accessories is available.

We have a strong emphasis on research and development, production, service and training. Working in conjunction with hospitals and physicians is just as important as good communication. During April 2010, GIGALASER have completed a new financing platform for cooperation. The Biolake which is China's largest medical bio-industry base has regarded our company as the largest manufacturer of medical diode laser systems and offered us new investment. We will take full advantage of this new platform, using the development, production, financial, human and other resources to accelerate the development. We will continue to provide new medical technology and good service to our honorable customers.



FDA CE 0197

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**GIGAA
LASER**

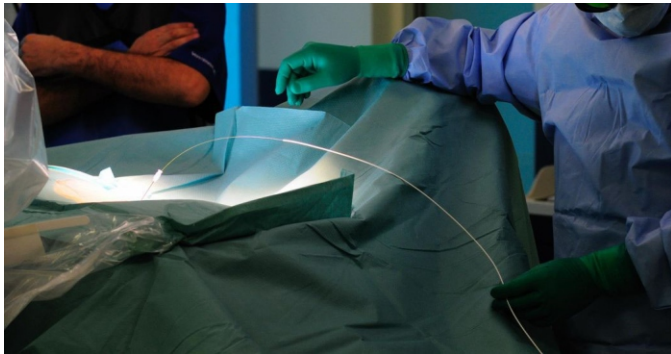
Lasers for PLDD
Percutaneous Laser Disc Decompression

Wuhan Gigaa Optonics Technology Co.,Ltd.

INTRODUCTION

Percutaneous Laser Disc Decompression (PLDD)

Percutaneous laser disc decompression (PLDD) is a type of surgery in which a laser probe is inserted into the intervertebral disc space and laser energy applied for achieving decompression and neuromodulation thereby relieving the pain. PLDD is a minimally invasive procedure that falls into the category of percutaneous intervertebral surgeries with the aim to significantly reduce the patient's pain and recover neurological deficit. It is performed under local anesthesia. By a specially designed laser, with a coefficient of absorbing energy adjusted for soft discus tissue, specific amount of heat is sent to achieve the evaporation of the water from the disc without additional thermal damage thus achieving decompression and creation of a stable intradiscal scar that will prevent herniation from reoccurring.

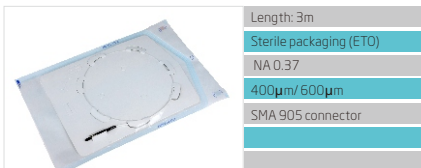


WHO SHOULD CONSIDER PLDD?

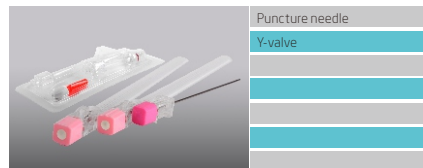
This procedure is specifically designed for patients with disc problems accompanied by the following:

- Severe leg, arm, neck or lower back pain.
- Pain that has not responded to six weeks of conservative treatments- rest, meds or physical therapy.
- Herniated lumbar discs confirmed by x-ray studies that may include one or more of the following: Magnetic Resonance Imaging (MRI), CAT Scanning, Myelography, Discography.

Bare fiber



PLDD kit



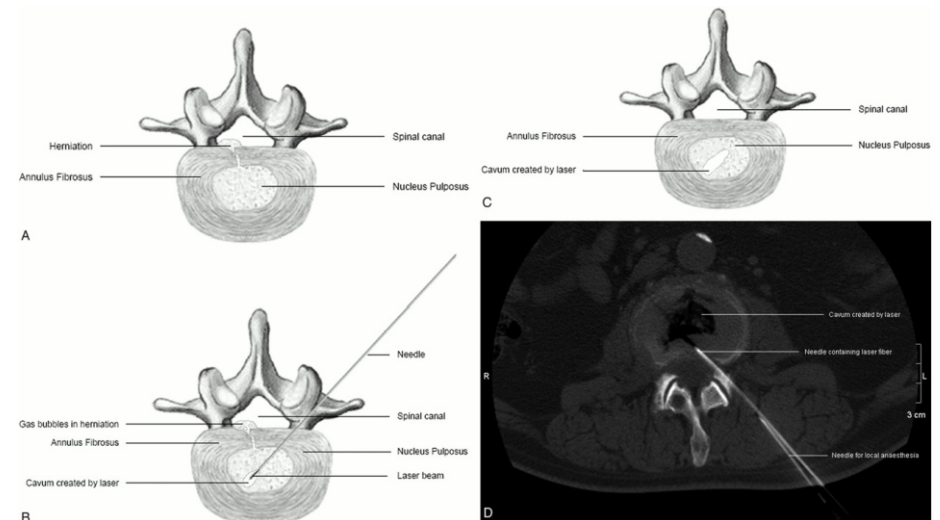
Approved by the FDA and recognized by the AMA, PLDD is a minimally invasive laser treatment performed on an outpatient basis using only local anesthesia. During the procedure, a laser beam vaporizes a tiny portion of the disc, decompressing it. Patients typically get off the table and go home. There is no hospital stay, no long recovery period, and PLDD costs many thousands of dollars less than surgery.

PLDD is the minimally-invasive medical procedure developed by Dr. Daniel S.J. Choy in 1986 that uses a laser beam to treat back and neck pain caused by a herniated disc. A herniated disc is like a balloon with a weak spot. Inflating it will cause a bulge (herniation). Pain results from the bulge pressing against nerves in the spinal column.

The PLDD treatment is performed on an outpatient basis using only local anesthesia. During the procedure, a thin needle is inserted into the herniated disc under x-ray guidance. An optical fiber is inserted through the needle and laser energy is sent through the fiber, vaporizing a tiny portion of the disc nucleus. This creates a partial vacuum which draws the herniation away from the nerve root, thereby relieving the pain. The effect usually is immediate.

Patients get off the table with just a small adhesive bandage and return home for 24 hours of bed rest. Then patients begin progressive ambulation, walking up to a mile. Most return to work in four to five days.

Because only a thin needle is used, there is no cutting and no scarring. Since only a tiny amount of disc is vaporized, there is no subsequent spinal instability. PLDD is different from open lumbar disc surgery because there is no damage to the back muscle, no bone removal or large skin incision. Most of the complications that may occur with open surgery are eliminated with the PLDD procedure.



A, Herniated disk before PLDD
B, Application of laser energy into the nucleus pulposus
C, Herniated disk after PLDD
D, CT image after PLDD, showing a gas-containing cavum in the nucleus pulposus.