

**Post Graduate Advanced Certificate Course**

**LASERS IN VARICOSE VEINS**

**Course Director:**



**Prof. Dr. Uddhav A. Patil**

MS MCh (Plast. Surg.) MACPhleb (USA)

- More than twelve years of experience in Laser Surgery.
- Founder Chairman & MD of  
LakshyaKiran Therapeutic Lasers & Research Institute Pvt. Ltd.,  
one of the pioneer & full fledged laser institutes in India.
- Associate Professor & P.G. Teacher at Dr. D. Y. Patil Medical College, Kolhapur.  
Reviewer, Aesthetic Plastic Surgery
- One of the pioneer members to start Endo-Venous Laser Surgery in India  
and has 10 years of experience in the field.
- Has lectured extensively & conducted laser workshops in India & Indonesia.
- He is Founder Secretary of ACLS: Academy of Cosmetic & Laser Surgery.

## A 4 Module Comprehensive Certificate Programme

# Approach & Unique Features

An evidence based LASER course that equips the candidates with technical knowledge along with valuable clinical expertise  
Candidates will be instructed and certified in the use of the entire spectrum of EndoVenous LASERs on patients, guided by our National Faculty.

### Module I :

(Distant Education)

## Laser Physics & Basics

- Introduction to Laser Physics
- Laser-Tissue (Biophysical) Interactions
- Modes of Operations of Lasers
- Laser Safety

*On Line MCQ Examination*

### Module II :

(Distant Education)

## EndoVenous Procedures

- Venous Anatomy & Patho-Physiology
- History & Evolution of EndoVenous Procedures
- CEAP Classification of Varicose Veins
- EV Lasers, RF & Steam Ablation: Pros, Cons & Comparison
- EV Laser Wavelengths 810, 940, 980, 1064, 1320 & 1470
- Ancillary Procedures: USG Guided Foam Sclero, Ambulatory Hook Phlebectomy

*On Line MCQ Examination*

### Module III:

(Contact Session Minimum 2 Days)

## Live EndoVenous Laser Procedures

- Query solving & doubts clearing for Modules I & II
- Clinical Evaluation & Charting of Varicose Limbs
- Duplex Ultrasound Exam. for Varicose/Vein Disease (Procedural Witness)
- Interpretation of Duplex Images & Reports
- 1064 nm Nd:YAG (Short Pulse) External Laser for smaller veins
- Attending / Assisting EV Procedures
- Video Presentation: Procedural difficulties, Tricks of Trade & Pearls of Wisdom

*Written Examination*

#### **Module IV :**

(Contact Session Minimum 2 Days)

### **Live EndoVenous Laser Procedures**

Query solving & doubts clearing for Module III

Instrumentation, patient preparation, OR preparation

Slow fibre withdrawal training

Endo-Venous Laser Procedure by candidate under direct supervision of faculty

Optical Fibre cleavage, preparation, after care & sterilization

How to equip a Vein Clinic

Varicose stockings, leg exercises and follow up

*Written Examination*

- Certificate Awarding Ceremony followed by Dinner
- On Registration for the course, candidate will receive Xerox copies of the educational material for Module I along with pertaining Electronic material. He will be given an index for reading this material.
- After completion of each module, next module's educational material will be sent to the candidate. This includes a textbook 'Fundamentals of Phlebology', some back issues of 'Phlebology' an official journal of ACP: American College of Phlebology. 'In The Vein' The monthly News E-Bulletin of ACP.
- During the fourth module candidate will perform one procedure on patient.
- During Contact Modules III & IV candidate is allowed to follow up patients done earlier at the centre to evaluate the efficacy of Endo-Venous Lasers.
- Duplex Ultrasound Module for Venous Disease is a separate module which can be amalgamated with EVLT modules by paying additional fees.
- At the end of the course candidates will be :
  - Knowledgeable about laser physics, laser tissue interactions and mechanisms offunction of Endo-venous lasers
  - Candidate will be knowledgeable about the intricacies of Endo-venous laser procedures
  - Empowered to decide the right indications and energy settings for EV procedure.
  - Aware of the possible complications, ways to avoid / minimize them & handle them.
  - Able to start a successful 'VEIN CLINIC' using a Laser of their choice.

#### **Module V :**

(Advanced On site &/or Ongoing Training)

### **EndoVenous Laser Proficiency**

- Faculty will visit the candidate's set up and assist the procedures. This one to one interaction is for fine tuning the procedures & knowledge update.

(Module V is not part of the certification programme. There will not be educational fees but incidental expenses to be borne by the candidate).