LA&HA Master's Program in Laser Dentistry

MODULE I

15 credit hour

A hands-on 2 day Workshop

Utilization of Er:YAG & Nd:YAG Lasers in Dentistry

June 8 and 9, 2024
8am to 5pm

One King West Hotel & Residence
Address: 1 King St W, Toronto, ON M5H 1A1

NATIONAL DENTAL INNOVATIONS

Course Overview

Objective of the first module

The first module of the Master's Program (2 days) represents a comprehensive overview of laser physics, laser interactions with different biological tissues, laser safety, operating a dental laser device and selected treatments.

The first module is designed to provide basic knowledge to understand different laser treatment methods in dentistry. PHAST Start to Restorative, Soft Tissue Surgery, Endodontics, Perio and Nightlase

The program for the first module

Laser physics

The electromagnetic spectrum and laser wavelengths
History of lasers
Basic interaction with tissues
Construction of a solid-state laser
Laser parameters
Laser beam profiles
Delivery of a laser beam

Laser safety

Thermal effects
Mechanical effects
Electrical and fire hazards
Chemical hazards
Eye hazards and protective goggles
Laser safety standards and implementation in the dental office

Laser interactions with biological tissues

Ablation mechanism
Transmission mechanism
Reflection mechanism
Scattering mechanism
Hands-on training with all mechanisms

Operating Fotona dental laser devices

Technology features (VSP, EFC, QSP)
Handpieces overview
Setting parameters
Device maintenance
Hands-on operation of the device

Multiple choice test

Presenter

Dr Scott Benjamin

About the Speaker:

Dr. Scott Benjamin is an internationally recognized expert and lecturer on Dental Lasers, Oral Cancer and Advanced Dental Technologies and is in private practice in rural upstate New York where he utilizes several lasers of different wavelengths on an everyday basis. Dr. Benjamin is Co-Chairman of the ADA Standards Committee Working Group on Dental Lasers, a member of American National Standards Institute (ANSI) Committee Z-136 on Laser Safety and is a Past-President of the Academy of Laser Dentistry (ALD) and was their 2007 and 2010 Scientific Program Chairman. Dr. Benjamin has faculty appointments at several dental schools and is a Past-Chair of the American Dental Educators Association's (ADEA) Lasers in Dentistry Special Interest Group (LiD-SIG) and has been intimately involved in developing the lasers curriculum for dental and hygiene schools throughout North America. He has published over 200 articles on dental lasers and advanced dental technologies and is a member of the editorial board of several prestigious peer reviewed dental journals.

Dr. Benjamin's Affiliations:

Midwestern University Colleges of Dental Medicine, Adjunct Professor
University at Buffalo School of Dental Medicine, Visiting Professor
Eastman Institute for Oral Health at the University of Rochester, Associate Professor
ADEA's Lasers in Dentistry-Special Interest Group, Past-Chair
2014-2015 President of the Academy of Laser Dentistry (ALD)
2018 Recipient of ALD's Distinguished Service Award for Laser Dentistry
Advanced Technology Section Editor for Compendium, PPAD, and JPH
Editorial Board of the Journal of Laser Dentistry, Dentistry Today, & Inside Dentistry Member of ADA Standards Committee on Dental Products (ADA-SCDP)
Co-Chair of the ADA-SCDF Working Group on Dental Lasers
Member of ADA Standards Committee on Dental Informatics (ADA-SCDI)

More Information

Breakfast and lunch are provided.

NDI contact information:

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