



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

UNIVERSITÀ CATTOLICA DEL SACRO CUORE
FACOLTÀ DI MEDICINA E CHIRURGIA “AGOSTINO GEMELLI”

Istituto di CLINICA ODONTOIATRIA
Direttore: Prof. MASSIMO CORDARO

Corso di Formazione **Advanced Proficiency Diode Laser certification**

Course Director: Prof. Massimo Cordaro

Scientific Coordinators: Prof. Vasilios Kaitsas and Prof. Giovanni Olivi

Didactic Coordinators: Prof. Luca Marigo and Dr. Raffaella Castagnola

Course attendees:

The course aimed at graduated in dentistry, in medicine and surgery and specialised in Dentistry and Cranio-Facial Surgery). The course will be held in English.

How the course is organised:

The course is divided into 2 modules and each module is 3 days long for a total length of 40 hours of frontal lessons and practical activities using extracted teeth and animal models. Clinical activities will also be carried out in an affiliated laser dental center (InLaser) under the supervision of the tutors.

Faculty Principals:

Prof. Massimo Cordaro, Prof. Luca Marigo, Prof. Carlo Lajolo, Prof. Vassilios Kaitsas, Prof. Giovanni Olivi, Dr. Maria Daniela Genovese, Dr. Raffaella Catagnola, Dr. Walid Altayeb

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Course dates:

The course will be held in 2018, starting in **October 25-27** and ending in **November 29-December 1**.

Course outline:

Dates and topics that will be covered during the course:

Module 1 October 25 - 27

Prof.Giovanni Olivi, Prof.Vasilios Kaitzas, Dott.Raffaella Castagnola

October 25

9:00 - 9:15 Salutation: Prof.Massimo Cordaro

Course presentation: Prof. Luca Marigo

9:15 - 10:30 Prof. G.Olivi: Historical aspects of laser development. Laser photonic energy. Relationship of laser emission to ordinary light. Applications of laser in Dentistry.

10:30 - 11:00 caffè break

11:00 - 12:00 Prof. G.Olivi: Production of laser photonic energy by solid-state, gas and semi-conductor-based laser machines. Emission modes: cw, gated mode, time on, time off; free running pulsed mode.

12:00 - 13:00 Hands on: Preparation of the fiber tip; cutting, activation and cleaning of the laser tip/fiber.

13:00 - 14:00 Lunch

14:00 - 14:15 Prof. G.Olivi: Application of diode laser in Restorative dentistry.

14:15: 15:00 Prof. V.Kaitzas: teeth anatomy and ultrastructure.

15:00 - 16:00 Prof. G.Olivi: Dentin decontamination; Enamel/Dentin irradiation for tooth desensitisation. Pulp therapy: pulpectomy/tomy, pulp decontamination, coagulation and capping.

16:00 - 16:30 coffee break

16:30 - 17:00 Prof. V.Kaitzas: root anatomy and ultrastructure.

17:00 end of the day

October 26

9:00 - 10:30 Dott. R.Castagnola: Access cavity preparation; orifice preflaring and glide path preparation; root canal preparation; irrigants and irrigation systems.

10:00 - 10:15 Prof. G.Olivi: Application of diode laser in Endodontics: Conventional Laser Endodontics (CLE), aPAD (Photo Activated Disinfection), Laser Activated Disinfection (LAI).

10:30 - 11:00 coffee break

11:00 - 12:00 Prof. G.Olivi: Diode laser applications in Endodontics: direct laser irradiation in dry mode (CLE).

12:00 - 12:30 Prof. G.Olivi: Diode laser applications in Endodontics: direct laser irradiation in wet mode (CLE).

12:30 - 13:00 Diode laser applications in Endodontics: photoactivated disinfection (PAD).

13:00 - 14:00 Lunch

14:00 - 17:00 Dr. R.Castagnola and Dr. M.Olivi Hands on: root canal shaping, root canal cleaning and disinfection, root canal obturation on extracted teeth. Laser decontamination.

October 27

9:00 - 10:30 Prof. G.Olivi: Review of Laser Soft Tissue applications

10:30 - 11:00 coffee break

11:00 - 11:30 Labial frenulum: classification of normal or abnormal and anomalous labial frenum.

11:30 - 13:00 Diode laser applications for Labial Frenectomy

13:00 - 14:00 Lunch

14:00 - 15:30 Dr. Maria Daniela Genovese: Lingual frenum development and body functions. Breastfeeding difficulty, Speech impairment, Cranio-facial growth, Body postural modifications.

15:30 - 16:00 Prof. Giovanni Olivi: Lingual frenum diagnosis, treatment and follow-up

16:00 - 17:00 Hands on: laser frenectomy on animal model.

Module 2 2018 November 29 - December 1

Prof.Giovanni Olivi, Prof.Carlo Lajolo, Dott.Matteo Olivi

November 29

9:00 - 11:00 Prof. Carlo Lajolo: Diagnosis of Oral Pathology and conventional treatments.

11:00 - 11:30 coffee break

11:30 - 13:00 Laser applications in Oral Pathology.

13:00 - 14:00 Lunch

14:00 - 15:50 Prof. Giovanni Olivi: Laser in Periodontics and PDT.

15:30 - 17:00 Dr.Matteo Olivi: hands on on animal model.

November 30

Laser use in oral soft tissue management.

Laser wavelengths and consideration of optimal power parameters relative to absorption phenomena.

Laser use in the management of non-keratinised or “loose” soft tissue structures – lining mucosa, frenula, ventral tongue.

Laser use in the management of keratinised or “fixed” soft tissue – gingiva, dorsal tongue.

Laser use in periodontology – surgical and non-surgical applications.

Practical sessions in laser use.

Periodontics: diagnosis and conventional treatments. Applications of diode lasers in Periodontics. Near infrared irradiation for decontamination and bleeding control. Red visible irradiation for activation of photosensitizers (aPAD). Red visible irradiation for LLLT.

Mucogingival surgery: diode lasers for gingivectomy, gingivoplasty, frenectomy, lingual frenum release.

Implantology: second stage surgery, gingival modelling; red laser irradiation of photosensitizers for disinfection in periimplantitis.

Low Level Laser Therapy (LLLT)

Hands on: laser gingivectomy, frenectomy on animal model.

December 1

Closing ceremony and diploma awarding

Course enrollment:

A minimum of 15 to 30 candidates (maximum) - with the required prerequisites - will be accepted on the course and will be enrolled in the same order as received bookings.

Course participants shall be dental practitioners holding a current licence to practice dentistry, conferred by a recognised National Dental Body.

A signed self-certification by attenders attesting his/her degree/licence title must be provided

Course fee:

The fee for the entire course is €2,500.00 which covers course materials and administrative costs. No refunds will be granted. Enrollment must be completed online at <http://fopecom->

[rm.unicatt.it/fopecomonline/default.aspx?Edizione=1&IdEvento=4681](http://fopecom-<u>rm.unicatt.it/fopecomonline/default.aspx?Edizione=1&IdEvento=4681</u>).

Payment is to be made on receipt of confirmation of enrolment via bank transfer to the following account: **IBAN: IT13F0200805314000400266512**

Registration and payment deadline

Registration will open on May 2nd and will close on July 31.

Diploma title:

On completion of the course, those who have successfully completed the final assessment task and evaluation of their knowledge and competence level, according to act no. 341/1990, a **Diploma in Advanced Proficiency in Diode Laser** will be granted.

The Catholic University of Sacred Heart (Università Cattolica del Sacro Cuore) reserves the right to not proceed with, or to cancel the course, if an insufficient number of enrollments are reached in order to cover the course costs.

For more info

The office for ECM education

Conferences and presentations

tel. +39 06 30154297

Fax +39 06 3051732

e-mail: bruno.prestagiovanni@unicatt.it