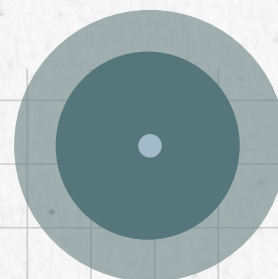


ENDORSED BY:



Meeting Agenda

Medical Lasers: Advanced Clinical Applications and Safety



Date	Venue
22/4/2023	Lecture Hall "G. Kotzias", Medical School, National and Kapodistrian University of Athens

Organizing Committee

- E. Efstathopoulos^{1,3} Professor, Medical Physics
- E. Papanastasiou^{2,4} Assoc. Professor, Medical Physics
- P. Platoni^{1,2} Assist. Professor, Medical Physics
- E. Spyratou^{1,3} Scientific Collaborator, Applied Physics
- D. Stasinou^{2,5} Medical Physicist

¹ 2nd Dept. of Radiology, Medical School, National and Kapodistrian University of Athens

² Hellenic Association of Medical Physicists

³ Hellenic Society of Nanotechnology in Health Sciences

⁴ Laboratory of Medical Physics & Digital Innovation, Medical School, Aristotle University of Thessaloniki

⁵ Radiation Oncology and Stereotactic Radiosurgery Center, Mediterraneo Hospital

10:00 – 10:30: Registrations

10:30 – 11:30: Introductory session

Chair: E. P. Efstathopoulos,

Professor of Medical Physics, 2nd Department of Radiology, Medical School, NKUA

10:30-10:45: Opening of the Conference – Addresses – Greetings

10:45-11:00: Introduction

Efstathios P. Efstathopoulos, Professor of Medical Physics, 2nd Department of Radiology, Medical School, NKUA

11:00-11:30: Basic principles of lasers–Biophysical mechanisms of laser–tissue interactions

Ellas Spyratou, Scientific Collaborator, 2nd Department of Radiology, Medical school, NKUA

11:30 – 13:30: Session 1: Lasers in the diagnosis and treatment of diseases

Chair: P. Platoni,

Assistant Professor of Medical Physics, 2nd Department of Radiology, Medical School, NKUA

& E. Papanastasiou

Associated Professor of Medical Physics, Laboratory of Medical Physics & Digital Innovation, Medical School, Aristotle University of Thessaloniki

11:30-11:50: The use of Laser Doppler flowmetry, to study blood supply changes in partial thickness burns following topical application of vasoactive agents

Pantelis Tagkalakis, Plastic Surgeon, MD, MSc, PhD

11:50-12:10: Treatment of endobronchial cancer by coupling cryotherapy with laser/APC

Dimitrios Kyprisopoulos, Consultant Thoracic Surgeon, MD, MD PhSc, FRCS ea, Robotic and Thoracoscopic Minimal Invasive Surgery

12:10-12:30: The use of Laser in fetal medicine

George Papaioannou, Fetal Medicine and Fetal Surgery Specialist, 3rd Department of Obstetrics and Gynecology, AUTH

12:30-12:50: Bridging the non-ionizing ultra-short laser radiation with ionizing particulate matter in the treatment of cancer

Mirsini Makropoulou, Emeritus Professor, School of Applied Mathematical and Physical Sciences, National and Technical University of Athens

12:50-13:10: The use of lasers in interventional radiology

Stavros Spiliopoulos, Associate Professor of Interventional Radiology, 2nd Department of Radiology, "ATTIKON" University General Hospital, NKUA

13:10-13:30: Discussion

13:30 – 14:00: Break

14:00 – 15:30: Session 2: Laser Safety in Medicine

Chair: M. Makropoulou,

Emeritus Professor, School of Applied Mathematical and Physical Sciences, National and Technical University of Athens

14:00-14:20: Laser safety: Risks, hazards, and control measures

Efi Koutsouveli, Medical Physics & Radiation Protection Expert, Medical Physics Department, HYGEIA Hospital

14:20-14:40: Quality and safety control of laser systems: applications in ophthalmology

Georgios Zoulinakis, Clinical Application Specialist, System Vision SA Biomedical & Biotech Equipment

14:40-15:00: Laser Radiation and Dentistry: Modern Applications and Safety Issues

Eleftherios (Terry) R. Farmakis, Assistant Professor Of Endodontics, School of Dentistry, NKUA

15:00-15:20: Mapping the European and international regulatory framework of lasers exposure safety

Aspasia Petri, Electrical and Computer Engineer, Non Ionizing Radiation Unit, Greek Atomic Energy Commission

15:20-15:30: Discussion

15:30 – 16:00: Session 3: Presentation of commercial laser systems.

Apps & security issues

Chair: Ellas Spyratou,

Scientific Collaborator, Engineer of Applied Physics Sciences, 2nd Department of Radiology, Medical school, NKUA

15:30-15:45: Laser Leonardo: Characteristics & clinical capabilities

Michael G. Daskalakis, Managing Director - Endotech Medical Technology LTD

15:45-16:00: Medical Laser Applications – Measurement Solutions

Savvas Loukidis, Medical Physicist, Acta LTD

16:00 – 16:30: Workshop: Demonstration of spectroscopy measurements using a portable biophotonic system ("ΒΙΟΦΑΣΜΑ/BIOPHASMA", Τ2ΕΔΚ-01223 & MIS 5069884)

Athanasios Kontos, Associate Professor, School of Applied Mathematical and Physical Sciences, National and Technical University of Athens

Spyros Orfanoudakis, Postgraduate, School of Applied Mathematical and Physical Sciences, National and Technical University of Athens

SPECIAL NOTES

Attending the seminar is free for members of HAMP and HsnanoHS and for students (undergraduate and postgraduate). For other scientists, the attendance fee is 15 euro.

Seminar Attendance Certificate

This course has been accredited by EBAMP as a CPD event for Medical Physicists at EQF Level 7 and has been awarded 8 CPD points.

ORGANIZED BY



NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS

MEDICAL SCHOOL
"ATTIKON" UNIVERSITY HOSPITAL
2ND DEPARTMENT OF RADIOLOGY
Medical Physics Unit



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