Milan, September 11th - 12th, 2025

Proton Therapy: from theory to clinical practice 2nd Edition

SCIENTIFIC DIRECTOR
Barbara Alicja Jereczek-Fossa
Daniela Alterio



Introduction

The European Institute of Oncology presents a two-day theoretical and practical course on Proton Therapy. Proton Therapy represents the latest frontier in external beam radiotherapy, offering significant advantages in reducing radiation exposure to healthy tissues and, in many clinical conditions, providing improved irradiation of the target volume.

This course covers all aspects of proton therapy treatment, from clinical indications to treatment planning and patient positioning, highlighting similarities and differences compared to conventional photon-based radiotherapy. For this reason, the course is designed for various healthcare professionals, including Radiation Oncologist, Medical Physicists, and Radiation Therapist (RTTs). It features both lectures and, most importantly, hands-on practical exercises.

The goal of the course is to provide participants with the necessary tools for a proper approach to this radiotherapy technique, fostering a more efficient network among healthcare professionals and optimizing the use of Proton Therapy for patient care.

Registration Fees

Standard Fee: Euro 300 (VAT included) Specializing Doctor Fee: Euro 170 (VAT included) AIOCC Members Fee: Euro 260

University Students Fee: Free Maximum Participants: 15

To register, click on the following link: https://ems.mzevents.it/start/2390/eng

Crediti: 20 - Provider: IEO ID 207 - 444575

Areas of Interest

The course is accredited for ECM credits and is intended for: Medical Doctors (specialized in Radiotherapy and Oncology),

Medical Physicists, Radiologic Technologists Educational Objective: Technical-professional content (knowledge and skills) specific to each profession, specialty, and ultra-specialized activity, including rare diseases and gender medicine.

Certificate of Attendance & ECM Credits (Only for italians)

The certificate of attendance will be sent via email by the Organizing Secretariat within a few days after the course.

To be eligible for ECM credits, participants must attend at least 90% of the training hours, complete the event evaluation questionnaire, pass the practical exam at the end of the course. The ECM certificate will be sent via email a few daus after the event.

Online up-front lessons (only morning)

Online Fee: Euro 50 (VAT included) University Students Fee: Free

To register, click on the following link: https://ems.mzevents.it/start/2390/eng

Required information

This registration does not include ECM credits and the attendance to the afternoon hands-on sessions.

Faculty

Scientific Director

Barbara Alicja Jereczek-Fossa Radiotherapy Division, IRCCS IEO Milan University of Milan

Daniela Alterio Radiotherapy Division, IRCCS IEO Milan

Invited Speakers

Luca Bergamaschi Radiotherapy Division, IRCCS IEO Milan

Fabiana Castelluccia Radiotherapy Division, IRCCS IEO Milan

Federica Cattani Health Physics Unit, IRCCS IEO Milan

Stefania Comi Health Physics Unit, IRCCS IEO Milan

Stefano De Crescenzo Radiation Protection Expert, IRCCS IEO Milan

Giuseppe Curigliano
Development of New Drugs for
Innovative Therapies Unit,
IRCCS IEO Milan

Samantha Dicuonzo Radiotherapy Division, IRCCS IEO Milan

Marianna Alessandra Gerardi Radiotherapy Division, IRCCS IEO Milan

Roberta Lazzari Radiotherapy Division, IRCCS IEO Milan Marco Liotta Health Physics Unit, IRCCS IEO Milan

Chiara Lorubbio Radiotherapy Division, IRCCS IFO Milan

Giovanni Carlo Mazzola Radiotherapy Division, IRCCS IEO Milan

Roberto Orecchia Scientific Directorate, IRCCS IEO Milan

Floriana Pansini Health Physics Unit, IRCCS IFO Milan

Martina Persiani Health Physics Unit, IRCCS IEO Milan

Gaia Piperno Radiotherapy Division, IRCCS IEO Milan

Ilaria Repetti Radiotherapy Division, IRCCS IFO Milan

Massimo Sarra Fiore Radiotherapy Division, IRCCS IEO Milan

Maria Giulia Vincini Radiotherapy Division, IRCCS IEO Milan

Stefania Volpe Radiotherapy Division, IRCCS IEO Milan University of Milan

Programme

Thurso	day, September 11 th , 2025
10.00	Networking welcome coffee R. Orecchia, B.A. Jereczek-Fossa, D. Alterio
10.15	Presentation of the IEO Proton Center - B.A. Jereczek-Fossa
10.30	Protons in radiotherapy: physical aspects - F. Cattani
11.00	Radiobiology (RBE, LET, and Beyond) - M.G. Vincini
11.20	Clinical Indications for Proton Therapy: overview - D. Alterio
11.40	Proton Therapy workflow - M. Sarra Fiore
12.00	The TSRM perspective: Proton Therapy vs. photon beam radiotherapy <i>F. Castelluccia</i>
12.30	Networking lunch
13.30	Tour of the IEO Proton Center with a visit to treatment rooms
14.30	Practical training - S. Comi, C. Lorubbio, G. Piperno, I. Repetti Group 1: Proton Therapy treatment plan: brain, head & neck, sarcoma, pelvis, re-irradiation. From contouring to treatment plan development Group 2: Set-up and treatment: hands-on practice with set-up and therapy using the proteus one, with demonstrations by medical radiology technicians. Group 3: Contouring challenges and re-evaluation CT assessment, dose-toxicity correlation
15.30	Group rotation
16.30	Group rotation
17.30	Closing remarks

Programme

Friday	, September 12 th , 2025
8.30	Welcome coffee and reflections on day 1
	Indications ator: G. Curigliano
9.00	Primary tumors of the central nervous system - G. Piperno
9.15	Head and neck tumors - L. Bergamaschi
9.30	Breast cancer - S. Dicuonzo
9.45	Gynecological tumors - R. Lazzari
10.00	Gastrointestinal tumors - M.A. Gerardi
10.15	Genitourinary tumors - G.C. Mazzola
10.30	Networking coffee break
11.00	Radiation protection issues related to the Design and Operation of a Proton Therapy Center - <i>S. De Crescenzo</i>
11.30	Proton Therapy planning: the concept of robustness - F. Pansini
12.00	Challenges in Proton Therapy Treatment plans: Motion Management and the Presence of Metallic Implants - <i>M. Liotta</i>
12.30	Networking lunch
13.30	Clinical Case Discussion (Radiotherapy division meeting)
14.30	Breakout Sessions by Professional Role: Physicians: clinical case discussion from det-up to contouring, teatment planning, and te-planning D. Alterio, G.C. Mazzola, S. Volpe Medical Physicists: dosimetry and quality control - S. Comi Radiology Technicians (TSRM): immobilization systems — differences compared to photon therapy treatments F. Castelluccia, M. Persiani
17.00	ECM credits and closing remarks

17.30 End of the course



Course venue

Aula Magna Leonardo la Pietra — IEO

Building 1, Ground Floor

European Institute of Oncology

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Endorsed by









