



THE ROLE OF PROTON THERAPY IN THE RADIATION ONCOLOGY OF THE THIRD MILLENNIUM

IFO – IRCCS Istituto Nazionale Tumori Regina Elena
Rome, June 15th 2023

PRELIMINARY PROGRAMME



SCIENTIFIC SECRETARIAT

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ORGANIZATIONAL SECRETARIAT

IANTRA Srl

Piazza Donatori di Sangue, 5 - 37124 Verona
tel. 045 4858877 - mail: congressi@iantra.it

CME PROVIDER N. 2538

Ecliptica Srl

Via Aldo Moro, 22 - 25124 Brescia
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¹ Istituti Fisioterapici Ospitalieri

² Scientific Hospitals and Treatment Institutes (IRCCS) are hospitals of excellence that pursue research in the biomedical field and in the organization and management of health services.



“I never think about the future, it comes so soon”. This Einstein maxim sums up well the challenges posed by evolution and the need to be ready in good time. In the field of oncology, we live in a period full of innovations concerning every possible therapeutic strategy (surgery, medical oncology, immunotherapy, radiotherapy). Radiotherapy is used to treat more than 50% of cancer cases and by virtue of its technological component can benefit from the continuous innovations in this field to improve the oncological outcome. Proton therapy (PT) represents an advanced form of radiotherapy that utilizes the intrinsic physical properties of protons (low input dose, zero output dose) to achieve a better dose distribution than conventional radiotherapy with photons with the aim of improving the therapeutic index. There are a number of critical aspects of PT, among them the significantly higher cost compared to conventional radiotherapy treatment, the current scarcity of clinical comparison data compared to conventional treatment and the technical complexity of irradiation with PT techniques. The aim of this conference is to share and discuss the potential and issues of the latest generation PT treatment. To this purpose, national and international experts will present the historical and current reality of the PT world; they will discuss their clinical expertise in the field and their visions for the future. The conference will also present the results of the dosimetric study performed at Istituto Nazionale Tumori Regina Elena di Roma in collaboration with the PT Centre of Trento aimed at identifying feasibility and possible clinical applications of PT in the treatment of Stage III non-small cell lung cancer.



PRELIMINARY SCIENTIFIC PROGRAMME

Thursday, June 15th 2023

- 10.00 Opening ceremony - **Prof. Gennaro Ciliberto, Prof. Giuseppe Sanguineti**
- 10.10 Introduction to the Conference - **Francesco Dionisi**
- 10.20 Lecture in “Radiotherapy in the third millennium” - **Giuseppe Sanguineti**

1st SESSION

Physical and clinical bases of Proton Therapy

Moderators: Marco Cianchetti, Antonella Soriani

- 10.40 Physical rationale and evolution of protontherapeutic treatment techniques - **Stefano Lorentini**
- 11.00 Clinical rationale and historical excursus of applications and clinical results of proton therapy - **Roberto Orecchia**
- Discussion

2st SESSION

Proton Therapy in lung cancer

Moderators: Federico Capuzzo, Francesco Facciolo, Giuseppe Sanguineti

- 11.30 Outcome and toxicity of radiochemotherapy treatments in the oncological treatment of NSCLC in STAGE III in the Pacific era - **Lorenza Landi**
- 11.50 Radiotherapy in STAGE III: old and new dosimetric indexes predictors of outcome and toxicity - **Francesco Dionisi**
- 12.10 Proton therapy in lung cancer: results of the project IFO-Trento - **Dante Amelio, Valeria Landoni, Lamberto Widesott**
- 12.40 Lecture “The role of proton therapy in the oncology care of the Third Millenium” - **Prof. Neha Vapiwala, Prof. John P. Plastaras**
- Discussions and closure
- 13.30 Working Breakfast

PRELIMINARY PROGRAMME NON-CME READINGS

- 14.30 **Non-CME readings:** Titles of speeches and speakers to be defined
- 15.30 Ends of non-CME readings



LIST OF SPEAKERS AND MODERATORS

Dante Amelio, Department of Proton Therapy
APSS Ospedale di Trento

Federico Capuzzo, Department of Oncologia medica 2
IFO - IRCCS Istituto Nazionale Tumori Regina Elena

Marco Cianchetti, Department of Proton Therapy
APSS Ospedale di Trento

Gennaro Ciliberto, Scientific Director
IFO - IRCCS Istituto Nazionale Tumori Regina Elena

Francesco Dionisi, Department of Radiation Oncology
IFO - IRCCS Istituto Nazionale Tumori Regina Elena

Francesco Facciolo, Department of Thoracic Surgery
IFO - IRCCS Istituto Nazionale Tumori Regina Elena

Lorenza Landi, Department of Oncologia medica 2 Fase I
IFO - IRCCS Istituto Nazionale Tumori Regina Elena

Valeria Landoni, UOSD Laboratorio di Fisica Medica e Sistemi Esperti
IFO - IRCCS Istituto Nazionale Tumori Regina Elena

Stefano Lorentini, Department of Medical Physics
APSS Ospedale di Trento

Roberto Orecchia
Istituto Europeo di Oncologia, Milano

John P. Plataras, Radiation Oncology University of Pennsylvania

Giuseppe Sanguineti, Department of Radiation Oncology
IFO - IRCCS Istituto Nazionale Tumori Regina Elena

Antonella Soriani, UOSD Laboratorio di Fisica Medica e Sistemi Esperti
IFO - IRCCS Istituto Nazionale Tumori Regina Elena

Neha Vapiwala, Radiation Oncology University of Pennsylvania

Lamberto Widesott, Department of Medical Physics
APSS Ospedale di Trento



GENERAL INFORMATION

DATE AND LOCATION:

The Conference will take place on June 15th 2023 at:

IFO – IRCCS Istituto Nazionale Tumori Regina Elena
Raffaele Bastianelli Conference Centre
Via Fermo Ognibene, 23 - 00144 Rome
Tel. 06 52661

The Hall B of the Raffaele Bastianelli Conference Centre is located inside the IFO buildings.

It can be accessed from Via Fermo Ognibene, 23 (Rome) close to exit 26 of the Grande Raccordo Anulare, easily accessible by public transport or by car.

CME

The Conference is in the process of being accredited by the Ministry of Health for the allocation of credits for 40 participants.

Provider: Ecliptica Srl, Via Aldo Moro, 22 - 25124 Brescia - ID n. 2538.

For the award of training credits, a 90% attendance rate is required to obtain all credits. A final questionnaire will be given and should be completed with 75% correct answers.

REGISTRATION

Registration [follow this link](#) which will be available from March 6th 2023.

Participation is free of charge.

Registration for the Conference includes participation in the scientific work and lunch on June 15th 2023.

Enrolments will be accepted in chronological order of arrival up to a maximum of 40 participants.

CANCELLATION OF ENROLMENTS

Cancellations of enrolments must be communicated in writing to the Organizational Secretariat (congressi@iantra.it - 045 4858877) by May 30th 2023.



ON-SITE SECRETARIAT

Secretariat hours at the conference venue: 8:30 a.m. - 4:00 p.m.

HOTEL RESERVATIONS

Participants who require overnight accommodation in Rome during the occasion of the Conference are kindly requested to contact the Organizational Secretariat (congressi@iantra.it - 045 4858877), who will arrange for suitable hotel accommodation.

