









This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101008548

HYBRID CME EVENTS

Hadrontherapy: status and perspectives. Development of a hadrontherapy facility: learning from the existing* and Scientific day on BNCT

OCTOBER 11TH | 12TH | 13TH 2023 PAVIA & ONLINE

Directors: Ester Orlandi, Saverio Altieri, Sotirios Charisopoulos

In collaboration with —

Event in conjunction with the IAEA-CNAO Regional Workshop on Hadrontherapy under

the Technical Cooperation project RER6039













OBJECTIVES

Thanks to the participation of a panel of nationally and internationally renowned speakers, the meeting aims to:

- Expanding participants' knowledge about clinical indications and advantages of hadrontherapy in an international overview and perspectives
- Informing participants on managerial, technical and clinical aspect of an hadrontherapy facility
- Improving understanding on resource requirements, challenges, economical and social implications of hadrontherapy
- Presenting status and perspectives of a new research clinical modality, BNCT (Boron Neutron Capture Therapy)

REGISTRATION

Participation to the course is free.

It is possible to register online at the address https://fad.accmed.org/course/info.php?id=1325.

THE EVENT IS HYBRID: IN PERSON AND ONLINE.

The meeting venue has limited seating and registration for the in-person participation will be accepted on a first-come-first-served basis. Once maximum capacity has been reached we will close the registration for the event in presence.

ONLY PERSONS ADMITTED TO PARTICIPATE IN PRESENCE WILL BE INFORMED WITH AN OFFICIAL EMAIL WITHIN THE MIDDLE OF SEPTEMBER.

ADDRESSED TO

The course is addressed to all health professions.

CME

Based on the in force regulations approved by the CNFC, Accademia Nazionale di Medicina (provider n. 31) will assign to the activity CME:

12 CME points (in-class course 11th -12th october)

18 CME points (webinar live 11th -12th october)

5 CME points (in-class course 13th october)

7,5 CME points (webinar live 13th october)

Training objective: professional and technical content (knowledge and skills) specific to each profession, specialisation and highly specialised activity. Rare disease.

The credit certification is subject to:

- Professions/specializations should correspond to those which have been accredited for CME
- attendance at the 100% of the event
- the completion of the Meeting evaluation online form:
- completion of the final test (at least 75% of correct answers). 1 attempt admitted for in-class course, 5 attempts admitted for live webinar.

The test and the meeting evaluation form must be completed within 3 days from the end of the event.

HADRONTHERAPY: STATUS AND PERSPECTIVES. DEVELOPMENT OF A HADRONTHERAPY SERVICE: LEARNING FROM THE EXISTING

PROGRAM

WEDNESDAY, OCTOBER 11th

09.00	Participant Registration		Clinical indications:
09.15	Welcome Addresses	10:55	Chordoma and Chondrosarcoma Piero Fossati
09.45	SESSION 1: CLINICAL ACTIVITIES	11:15	Coffee Break
	Chair: Lisa Licitra Keynote lecture Historical and scientific evolution of hadrontherapy Ugo Amaldi	11:30	Head and Neck cancers Barbara Vischioni
		11:50	Central Nervous System tumors Semi Harrabi
10:15	Hadrontherapy in the context of cancer care in Italy Marco Krengli	12:10	Gastroenteric and gynaecological tumors Amelia Barcellini
10:35	Hadrontherapy vs X-ray therapy: clinical aspects, patient pathway and clinical QA considerations Ester Orlandi	12:30	Pediatric cancers Sabina Vennarini
		12:50	Heavy ions for prostate cancer: how to manage pelvic nodes? Mack Roach
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SESSION 2: CLINICAL ACTIVITIES

Chair: Mario Ciocca

14:30	Clinical research and future prospective Roberto Orecchia	15:50	Coffee Break
14:50		16:05	Radiobiology: current trend and future prospective Michael Story
15:10	Patient clinical workflow including image guidance Guido Baroni	16:25	Novel approaches in particle therapy Andrea Mairani
15:30	Treatment planning: comparing techniques and standards Silvia Molinelli	16:45	Implementing a carbon ion facility: the Mayo Clinic Project Laura Vallow
	Cityla Floriniciii	17:05	Closing remarks
		19:30	Social Event



THURSDAY, OCTOBER 12TH

	SESSION 3: HEALTH POLICY CONTEXT AND HEALTH ECONOMICS OF HADRON THERAPY Chair: Andrea Filippi		SESSION 4: ORGANIZATION AND OPERATION OF MULTI PARTICLE THERAPY FACILITY Chair: Marco Cianchetti
09.00	ENLIGHT (European Network for Light Ion Hadron Therapy) and its role in Hadron Therapy Manjit Dosanjh	11.00	The Heidelberg Ion Beam Therapy Center - Technology, Clinical Application and Research Thomas Haberer
09:20	Academia meets Industry: IP, communication, managing expectations	11:20	The CNAO facility: operation and maintenance Giuseppe Venchi
	Manuela Cirilli	11:40	The MedAustron facility
09:40	Funding and health economic		Christoph Kurfuerst
	Fabio Amatucci	12:00	The Marburg facility
10:00	Financial toxicity: PSI experience		Klemes Zink
	Barbara Bachtiary	12:20	New accelerator design: NIMMS Maurizio Vretenar
10:20	Cost benefit analysis: the CNAO case		
	Maria Vittoria Livraga	12:40	The vision of the SEEIIST project Leander Litov
10:40	Coffee Break	13:00	Carbon facilities outside Europe with focus on USA/NCI programme Arnold Pompos
		13:20	Lunch

SESSION 5: RESEARCH & DEVELOPMENT IN HADRONTHERAPY

Chair: Pablo Cirrone

14:30 Building capacity through the IAEA programs

Sotirios Charisopoulos

14:50 HITRIplus project overview

Angelica Facoetti

15:10 Imaging: current trend and future perspectives

Katia Parodi

15:30 Flash Therapy with light ions

Emanuele Scifoni

15:50 Coffee Break

16:05 Upright positioning and arc therapy

Christian Graeff

16:25 New Gantry for ions

Marco Pullia

16:45 New technologies: superconducting

magnets

Lucio Rossi

17:05 Discussion

17:30 Visit of CNAO



SCIENTIFIC DAY ON BNCT

PROGRAM

FRIDAY, OCTOBER 13th

	BNCT: SESSION 1 Chair: Saverio Altieri – Paolo Pedrazzoli		BNCT: SESSION 2 Chair: Valerio Vercesi – Barbara Croesi
09.00	Hadron therapy in radiation oncology and why BNCT is a paradigm shift Wolfgang Sauerwein	11:20	Radiobiological characterization of a BNCT beam Mitsuko Masutani
09.20	Clinical BNCT experience with accelerators Minoru Suzuki	11:40	Dosimetry in BNCT Stuart Green
09.40	BNCT clinical trials Peeter Karihtala	12:00	Micro-dosimetry of a neutron BNCT beam Valeria Conte
10:00	Progress to clinical adoption of accelerator pased BNCT Lisa Licitra	12:20	Treatment planning for BNCT Ian Postuma
10:20	Development of new novel BNCT drugs Kendall Morrison	12:40	Discussion
		13:00	Lunch
10:40	Online boron dose distribution imaging Nicoletta Protti		
11:00	Coffee Break		



BNCT: SESSION 3

Chair: Stefano Agosteo – Laura Locati

14:00 Structural basis of cancer cells uptake of boronated compounds
Vittorio Bellotti

14:20 Accelerator based neutron sources for BNCT
Andres Kreiner

14:40 Development of the IAEA publication 'Advances in Boron Neutron Capture Therapy' lan Swainson

15:00 BNCT@CNA0 Sandro Rossi

15:20 Discussion and closing remarks

15:40 Visit of LENA



DIRECTORS

Ester Orlandi (CNAO, Pavia, I)

Saverio Altieri (University of Pavia, I)

Sotirios Charisopoulos (IAEA, Vienna, AT)

CHAIRMEN AND SPEAKERS

Stefano Agosteo (Politecnico, Milan, I)

Ugo Amaldi (TERA, Geneva, CH)

Fabio Amatucci (Bocconi University, Milan, I)

Barbara Bachtiary (Paul Scherrer Institute, Villigen, CH)

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Mitsuko Masutani (Nagasaki University, JP)

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Paolo Pedrazzoli (Policlinico San Matteo, Pavia, I)

Arnold Pompos (UT Southwestern, Dallas, USA)

Ian Postuma (INFN, Pavia, I)

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Marco Pullia (CNAO, Pavia, I)

Mack Roach (UCSF, San Francisco, USA)

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Michael Story (University of Texas, Dallas, USA)

Minoru Suzuki (KURNS, Kyoto University, JP)

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MEETING VENUE

CNAO

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