

SUMMER
3

SCHOOL OF CLINICAL ADAPTIVE RADIOTHERAPY

Endorsed by
ESTRO

25 | 27 June 2025

IRCCS Sacro Cuore
Don Calabria
Hospital Cancer Care Center
Negrar di Valpolicella, IT



Course Directors
Filippo ALONGI
Luca NICOSIA



SCIENTIFIC RATIONALE

Online adaptive radiotherapy is a new therapeutic procedure which allows for daily treatment plan adaptation. This approach can be performed with MR- or CT-based linacs. The promise of this new technology is to increase the therapeutic ratio of treatments by safely sparing organs at risk while increasing treatment accuracy. The novelty of this technological and clinical approach induces clinicians and operators to change their usual paradigm by performing new personalized solutions. With the availability of several machines with different structural and imaging characteristics, an insight to efficiently exploit the strengths of each available technology in the appropriate clinical setting is necessary. Therefore, a wide and comprehensive course is of outmost importance to speed up the learning curve and develop appropriate treatment workflow.

The present Summer School is dedicated to all Radiation Oncologists and Medical Physicists with expertise in clinical adaptive treatments, but also to those who are going to implement such technology or want to become familiar with it. The course has a keen practical approach with real clinical cases, contouring and planning sessions, and live treatments on the machines.

- 9:00 Introduction and greetings from the faculty | **Filippo Alongi & Luca Nicosia**
- 9:20 Modern radiotherapy in the time of adaptive treatment and artificial intelligence | **B. Jereczek-Fossa**
- 9:40 Current evidence and development of adaptive radiotherapy in prostate tumors | **T. Zilli**
- 10:00 Current evidence and development of adaptive radiotherapy in abdominal tumors | **P. Franco**
- 10:20 Current evidence and development of adaptive radiotherapy in bladder tumors | **F. Counago**
- 10:40 *Coffee break*
- 11:00 Current evidence and development of adaptive radiotherapy in brain tumors | **I. Popp**
- 11:20 Current evidence and development of adaptive radiotherapy in thoracic tumors | **D. Moghanaki**
- 11:40 Status and future developments of MR-linac (presenting Comprehensive Motion Management) | **R. Ruggieri**
- 12:00 Status and future developments of CT-based adaptive radiotherapy (presenting advanced IGRT) | **TBD**
- 13:00 *Lunch*
- 14:00 Live treatment sessions | **2 groups at Unity and Ethos with experts**
- 15:30 Closing day 1

9:00 Hands-on session for CT-based and MR-based systems | divided by work group; Facilitators/
discussant: **Faculty**

11:00 *Coffee break*

11:30 Hands-on session for CT-based and MR-based systems | divided by work group; Facilitators/
discussant: **Faculty**

13:30 *Lunch*

14:30 Live treatment sessions | **2 groups at Unity and Ethos with experts**

16:00 Closing day 2

- 9:00 Hands-on session for CT-based and MR-based systems | divided by work group; Facilitators/
discussant: **Faculty**
- 11:00 *Coffee break*
- 11:30 Hands-on session for CT-based and MR-based systems | divided by work group; Facilitators/
discussant: **Faculty**
- 13:30 *Lunch*
- 14:30 Clinical application and studies of adaptive radiotherapy and systemic therapies. Clinical practice
and research at Sacro Cuore. QA session on adaptive workflow | **F. Alongi, M. Buglione di
Monale e Bastia, L. Nicosia - Faculty**
- 15:30 Final wrap-up | **F. Alongi, M. Buglione di Monale e Bastia, L. Nicosia**
- 16:00 End of course

FACULTY



Andrea Gaetano **ALLEGRA** (Negrar di Valpolicella, Italy)

Filippo **ALONGI** (Negrar di Valpolicella, Italy)

Nicola **BIANCHI** (Negrar di Valpolicella, Italy)

Riccardo Filippo **BORGESSE** (Negrar di Valpolicella, Italy)

Michela **BUGLIONE DI MONALE E BASTIA** (Brescia, Italy)

Felipe **COUNAGO** (Madrid, Spain)

Antonio **DE SIMONE** (Negrar di Valpolicella, Italy)

Pierfrancesco **FRANCO** (Novara, Italy)

Nicolò **GIAJ-LEVRA** (Negrar di Valpolicella, Italy)

Davide **GURRERA** (Negrar di Valpolicella, Italy)

Barbara **JERECZEK-FOSSA** (Milan, Italy)

Drew **MOGHANAKI** (Los Angeles, USA)

Stefania **NACCARATO** (Negrar di Valpolicella, Italy)

Luca **NICOSIA** (Negrar di Valpolicella, Italy)

Edoardo **PASTORELLO** (Negrar di Valpolicella, Italy)

Ilinca **POPP** (Freiburg, Germany)

Francesco **RICCHETTI** (Negrar di Valpolicella, Italy)

Michele **RIGO** (Negrar di Valpolicella, Italy)

Ruggero **RUGGIERI** (Negrar di Valpolicella, Italy)

Thomas **ZILLI** (Lugano, Switzerland)

Congress Venue:

IRCCS Sacro Cuore Don Calabria | Hospital Cancer Center

Viale Luigi Rizzardi, 4 - Negrar di Valpolicella (VR)

Course Directors: Filippo **ALONGI** | Luca **NICOSIA**

The event will be for the following categories:

- n. **17 Radiation Oncologists**
- n. **17 Physicists**

Registration

The registration fee includes all coffee breaks and meals, hours of academic tuition, hours of elective tuition (Hands-on session, Live treatment sessions), all course materials, course completion certificate. **Acomodation not included.**

Member **AIFM/AIRO/ESTRO**: € 550,00 | Non-member **AIFM/AIRO/ESTRO**: € 650,00

Online registration available on our website www.summerschoolnegrar.com



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