SCUOLA SUPERIORE
DI FISICA IN MEDICINA
PIERO CALDIROLA

Direttore: Nando Romeo

ADVANCED COURSE ON STEREOTACTIC BODY RADIATION THERAPY: CURRENT CHALLENGES AND FUTURE DIRECTIONS

MILAN • October 15-17, 2026

Humanitas Ospedale San Pio X - *Via Francesco Nava 31, Milano*

Course Coordinator: Pietro Mancosu, Milan



Evento ECM n. 416-493641

Crediti assegnati: 9,8

Professioni: Fisico - Medico Chirurgo (Radioterapia Medicina Nucleare, Radiodiagnostica).

Obiettivo formativo: 18 - contenuti tecnico-professionali (conoscenze e competenze) specifici di ciascuna professione, di ciascuna specializzazione e di ciascuna attività ultraspecialistica, ivi incluse le malattie rare e la medicina di genere.

Provider ECM

AIFM • Associazione Italiana di Fisica Medica e Sanitaria
Piazza della Repubblica 32 - Milano
www.aifm.it

AIFM Scientific Committee

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Scientific Coordinator and Director of Scuola Caldirola

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THE COURSE OBJECTIVE

Modern radiotherapy is increasingly moving toward precise, image-guided and hypofractionated treatment strategies. Stereotactic Body Radiation Therapy (SBRT), also known as Stereotactic Ablative Radiotherapy (SABR), allows the delivery of high radiation doses in a limited number of fractions to well-defined extracranial targets, with rapid dose fall-off and strict requirements for accuracy, safety and reproducibility.

Over the last two decades, SBRT has become an established treatment option for selected primary tumors and metastatic lesions in several anatomical sites, as reported by several phase II and III trials. Its successful implementation requires strong multidisciplinary collaboration, together with specific technical, dosimetric and quality assurance expertise.

This SBRT course will focus on current challenges and future developments.
The programme will address evolving clinical evidence, re-irradiation, proton therapy, immunological implications, artificial intelligence, multimodal imaging, adaptive strategies, dosimetric audit, motion management, quality assurance, and national and international recommendations.

The course is primarily intended for medical physicists, radiation oncologists and other professionals involved in stereotactic treatments who already have basic knowledge or practical experience in SBRT. It is also open to early adopters interested in exploring the current state of the art.

The objective of the course is to provide an updated and critical perspective on the physical, technological and clinical requirements needed to support safe, effective and evidence-based advanced SBRT practice.

SCIENTIFIC PROGRAMME

Thursday, October 15, 2026

12:00 / 13:00 Working Group Meeting.

13:15 Introduction. *F. Banci Buonamici, Siena*

Chair: P. Mancosu, Milano

13:30 SBRT evidence: lessons from completed and ongoing trials. *S. Senan, Amsterdam (The Netherlands)*

14:30 Oligometastases: insight from Oligocare. *C. Franzese, Milano*

15:00 Beyond the static dose cloud: why robustness should become the new standard in SBRT. *A. Scaggion, Padova*

15:30 ***Coffee break***

Chair: F. R. Giglioli, Torino

16:00 Small field dosimetry and beam modelling (IAEA483/ICRU91/TG155). *S. Russo, Firenze*

16:45 Safety: PSQA, quality assurance and in vivo dosimetry for SBRT. *A. Scaggion, Padova*

17:30 Oral presentation under 35.

- End-to-end test for lung SBRT using a motorised respiratory anthropomorphic phantom. *E. Gazzera, Firenze*
- Dosimetric and Technical feasibility of a preoperative stereotactic breast radiation therapy workflow. *S. Peric, Aviano*
- Cumulative BED in combined 177Lu-PSMA RLT and SBRT: a simulated case study. *S. Panebianco, Catania*

Friday, October 16, 2026

Chairs: S. Pallotta, Firenze - M. Scorsetti, Milano

08:30 AI and multimodal imaging: new tools for precision SBRT. *A. Laghi, Milano*

09:15 Automation in SBRT: from workflow standardization to ISS recommendations. *C. Fiorino, Milano*

10:00 Oral presentation under 35.

- Predictors of local control after SBRT for oligometastatic cancer: a large-scale analysis of 1909 patients. *B. Marini, Milano*
- Liver function preservation and clinical outcomes after Stereotactic Body Radiation Therapy for hepatocellular carcinoma: a real-world analysis. *V. Vernier, Milano*



- Evaluation of Monte Carlo-based independent secondary dose calculation for SBRT plans across different anatomical sites. *A. Camperi, Torino*

10:30 ***Coffee break***

Chairs: A. R. Filippi, Milano - S. Russo, Firenze

11:00 SBRT re-irradiation in practice: planning strategies and clinical scenarios.
D. Alterio, Milano - S. Pallotta, Firenze

11:30 Radiobiology of SBRT re-irradiation: potential, challenges, and limits. *L. Strigari, Bologna*

12:15 Multimodal deformable registration: quantifying uncertainty in advanced SBRT.
M. Van Herk, Manchester (U.K.)

13:00 ***Lunch***

13:45 AIFM members assembly.

Chairs: C. Franzese, Milano - C. Lenardi, Milano

14:45 Proton SBRT: physical rationale, clinical potential and open questions.
D. Alterio, Milano - G. Reggiori, Milano

15:30 Cardiac SBRT: from emerging indication to clinical implementation. *F. R. Giglioli, M. Levis - Torino*

16:15 SBRT and the immune response: biological effects and dosimetric contraints implications.
A. R. Filippi, Milano

17:00 ***Coffee break***

Chair: P. Mancosu, Milano

17:45 Debate • Dedicated vs general-purpose platforms for SBRT: what really matters?
M. Buglione, Brescia - C. Cavedon, Verona - C. Franzese, Milano - F. R. Giglioli, Torino

18:30 Satellite Simposia.

Saturday, October 17, 2026

Chair: S. Russo, Firenze

08:30 Adaptive IGRT and big data: learning from every SBRT treatment. *M. Van Herk, Manchester (U.K.)*

09:30 Multimodal imaging for SBRT in mimimally moving targets.
S. Arcangeli, Monza - C. Cavedon, Verona

10:15 Multimodal imaging for SBRT in moving targets. *F. R. Giglioli, Torino - R. Mazzola, Bergamo*

11:00 ***Coffee break***

Chair: P. Mancosu, Milano

11:30 Auditing SBRT quality: methodology, results and future standards. *S. Russo, Firenze*

12:15 SBRT guidelines in practice: ESTRO minimum requirements, prescription and ISS recommendations. *M. Krengli, Padova - P. Mancosu, Milano*

13:00 Awards.

13:15 Take-home messages: toward the next generation of SBRT practice.

INFORMATION

VENUE • Humanitas Ospedale San Pio X - Via Francesco Nava 31, Milano.

REGISTRATION FEES

- AIFM, AIRO, ESTRO, THASTRO members: € 180,00
- Non members: € 360,00
- Students AIFM AIRO Members (20 places available): € 50,00

The fee includes: admission to all scientific sessions, course kit, refreshments as per the programme.
Medical physicist/physician AIFM, AIRO, ESTRO, THASTRO members joint registration: a discount of 20% on the applicable individual net fee (without VAT) will be applied for all joint registrations (1 medical physicist + 1 physician). Registrations will have to be made individually by both registrants on the same day.
The name of the colleague participating in the joint registration will be required to apply the reduced rate.

REGISTRATION PROCEDURES • The course will be accredited for **100 participants**. The capacity of the main room is **120 seats**. More information available on the website: **www.fisicamedica.it/formazione**.
Applications for registration will be accepted according to the chronological order of arrival.
Confirmation of registration will in any case be subject to payment of the fee, which must be made by credit card or bank transfer (the precise instructions are given on the registration form) at the same time as registration.
Failure to meet payment leads automatically to forfeiture of the registration. In order to avoid administrative misunderstandings, it is mandatory to send a copy of the bank transfer together with the registration summary issued at the end of the online registration procedure to the organizing secretariat (**segreteria.aifm@symposium.it**).
It will not be possible to pay the fee during the course. Registrations will be open until **October 12, 2026**.

CANCELLATIONS • The course will not take place unless at least 50% of registrations are reached.
Any cancellation of the Course will result in a full refund of the registration fee.
In case of withdrawal by a participant, the fee will be refunded, net of administrative costs (€ 20,00), only if the notice of cancellation is sent to the organizational secretariat in writing (e-mail) by **September 15, 2026**.

CALL FOR ABSTRACTS • The scientific programme will include oral communication for both Medical Physicists and Radiation Oncologists. The best oral communications presented by participants under 35 years of age and/or in training will be awarded with a cash prize. Abstracts must be submitted by email to ***sbrt2026@symposium.it*** no later than **September 20, 2026**. Abstracts must be written in English, with a maximum length of 400 words, and may include up to two tables and/or figures. Abstracts must be submitted and presented at the conference in English.
Only abstracts submitted by participants registered for the course will be considered for evaluation.
All submitted abstracts will be reviewed by experts in the relevant field. Notification of the outcome of abstract submission will be sent by email by **September 30**, **2026**.

OFFICIAL LANGUAGE • English (simultaneous translation will not be provided).

ENDORSED BY:

AIRO Associazione Italiana Radioterapia e Oncologia clinica
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SATELLITE SIMPOSIA

Thursday, October 15, 2026

18:00 **ELSE** • myQA SRS. The A-B-C of Stereotactic QA: Accuracy, Brevity and Completeness.
A. Giuliacci

18:20 **DOSIMETRICA** • Dosimetry Audit Services: Building Confidence in SRS/SBRT practices.
A. Steorgiu

Friday, October 16, 2026

18:30 **TEMA SINERGIE** • Online Adaptive SBRT on a Standard C-arm Linac: Automated Planning and Comprehensive QA.
D. Raspanti

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