



UNIVERSITÀ  
DEGLI STUDI  
DI MILANO



Associazione Italiana  
Radioterapia e Oncologia clinica



Associazione Italiana  
di Radioprotezione



# Challenges of Radiological Protection in Research and Society referring to Medical Field

October 3/2024

Milan, Italy

Sala Napoleonica/Via Sant'Antonio, 12  
Università di Milano

The International System of Radiological Protection is developed by ICRP based on the understanding of the science, the effects of radiation exposures, expert experience, and on value judgements.

ICRP C3 addresses protection of patients when ionising radiation are used in medical diagnosis, therapy.

In the perspective of the evolution of the System, this event is a special moment of direct contact with ICRP C3 for the interested organizations and associations, with the opportunity for the professionals to elaborate more about the addressing in science and society referring to the medical field.

Specifically, the workshop focuses on areas of practice and research to support radiological protection, considering the evolution of the System and aiming to complement research priorities promoted also by other international organisations.

## Program

09:00 *Opening and welcome address*  
*Kimberly Applegate, Marie Claire Cantone*

### **SESSION 1 / Co-Chairs: Applegate Kimberly (ICRP), Marie Claire Cantone (UNIMI)**

09:10 *Current status of revision of ICRP System*  
*Kimberly Applegate (ICRP)*

09:25 *ISS activities on Radiation and Health*  
*Elena Solfaroli Camillocci (ISS)*

09:40 *The evolving role of the medical physicist  
in the field of Radiological Protection*  
*Lorenzo Nicola Mazzoni (AIFM)*

09:55 *Lights & Shadows of ICRP's recommendation on medical exposure in Italy*  
*Gloria Addeo (SNR)*

**10:10-10:30** **Open discussion / Co-Chairs: Mika Kortensniemi (ICRP),  
Fabriziomaria Gobba (AIRM)**

*10:30-10:50 Coffee break*

### **SESSION 2 / Co-Chairs: Ivan Williams (ICRP), Marco Krengli (AIRO)**

10:50 *TG 116: Radiation protection issues for imaging in radiotherapy*  
*Colin Martin (ICRP)*

11:05 *Radiological basis of hypofractionation (SBRT/Radiosurgery)  
and impact on patient Radiation Protection*  
*Monica Mangoni (AIRB)*

11:20 *Adaptive Radiotherapy in patient Radiation Protection*  
*Michela Buglione (AIRO)*

**11:35-11:50** **Open discussion / Co-Chairs: Andrea Magistrelli (ICRP),  
Marta Scorsetti (AIRB)**

**SESSION 3 / Co-Chairs: Colin Martin (ICRP), Carlo Cavedon (AIFM)**

- 11:55 TG 117: Radiological protection for PET imaging  
*Josep M Martí-Climent (ICRP)*
- 12:10 Old problems, new problems and opportunities  
in Medical Field of Radiation Protection  
*Paolo Ferrari (AIRP)*
- 12:25 Fitness-to-work and occupational exposure to ionizing radiation:  
criteria for the evaluation in workers with neoplastic diseases  
*Giuseppe Taino (UniPV, AIRM)*
- 12:40 TG 124, Application of the Principle of Justification  
*Sergio Salerno (UNIPA)*
- 12:55-13:15 Open discussion / Co-Chairs: John Damilakis (ICRP), Ivan Veronese (UNIMI)**
- 13:15-14:30 Lunch

**SESSION 4 / Co-Chairs: Makoto Hosono (ICRP),  
Mariagabriella Pugliese (AIRP)**

- 14:30 Presentation on C3 WP on AI in imaging  
*J. Damilakis (ICRP)*
- 14:40 AI can help optimize CT scan X-ray radiation dose  
*Sandra Doria (CNR-ICCOM)*
- 14:50 Research updates on radiobiology and carcinogenic risk assessment:  
potential application of gene expression profiles to predict biological  
effects of low dose ionising radiation exposure  
*Vincenzo Camisa (IRCCS Ospedale Pediatrico Bambino Gesù)*
- 15:05-15:25 Open discussion / Co-Chairs: David Sutton (ICRP),  
Marie Claire Cantone (UNIMI)**
- 15:25-15:45 Coffee break

**SESSION 5 / Co-Chairs: Jin ChulPaeng (ICRP), Francesco Bochicchio (ISS)**

- 15:45 WP on New Radiotherapies  
*Aurelie Isambert (ICRP)*
- 16:00 TG 126: RP for human biomedical research  
*Isabelle T-Chef (ICRP)*
- 16:15 TG 36: dose coefficients for radiopharmaceuticals  
*Makoto Hosono (ICRP)*
- 16:30 TG 113: dose coefficients in radiology  
*David Sutton (ICRP)*
- 16:45 TG 108: Optimisation in digital radiology  
*Mika Kortetniemi (ICRP)*
- 17:00-17:20 Open discussion / Co-Chairs: M.Mahesh (ICRP), Gabriele Gasparini (SNR)**
- 17:20 Concluding remarks  
*Kimberly Applegate, Francesco Bochicchio, Marie Claire Cantone*

## SCIENTIFIC COMMITTEE

*Kimberly Applegate  
(ICRP Chair C3)*

*Colin Martin  
(ICRP Vice Chair C3)*

*David Sutton  
(ICRP Secretary C3)*

*Marie Claire Cantone  
(UNIMI and ICRP C3)*

*Francesco Bochicchio  
(ISS Director of Radiation Protection  
and Computational Physics)*

## ORGANIZING COMMITTEE

*Aldo Bruno Gianni  
(UNIMI Dean Medical Faculty)*

*Ivan Veronese  
(UNIMI)*

*Olga German  
(ICRP Deputy Scientific Secretary)*

*Kelsey Cloutier  
(ICRP Head of Stakeholder  
Engagement and  
Communications)*

## GENERAL INFORMATION

Participation in the conference requires the pre-registration, and the cost is 40 Euro which includes two coffee breaks and lunch.

Booking and payment must be by 10 September using the registration form.



LINK:

<https://forms.gle/ldog4EeHaeznUBU36>

## ORGANIZING SECRETARIAT

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