

# European ALARA Network

20<sup>th</sup> workshop

## ALARA for interventional radiology & nuclear medicine

2.-4. October 2023

at

Austrian Agency for Health and Food Safety,  
Vienna

[https://akademie.ages.at/alara\\_network\\_meeting\\_workshop](https://akademie.ages.at/alara_network_meeting_workshop)

<https://www.eu-alara.net>







## Introduction

More than 10 years after workshop n°13 'ALARA in Medical Sector' and with regard to the novel issues identified in *EAN Newsletter* [48](#) (see p. 17) and [49](#) (see p. 9), the European ALARA Network would like to focus workshop n°20 on the **application of the optimization principle in interventional radiology and nuclear medicine** (new radiopharmaceuticals).

The programme will develop in 4 sessions:

1. Setting the scene and ALARA challenges identified in the fields of interventional radiology and new radiopharmaceuticals;
2. Tools for ALARA;
3. Focus on (new) radiopharmaceuticals;
4. Education, training and culture.

As traditional, a significant part of the EAN Workshop will be devoted to discussions in Working Groups, the topics being:

1. The challenges for the optimization of patients AND workers in interventional radiology.
2. What are the ALARA tools available in IR? Usages and usability?
3. What are the elements of a good ALARA culture in (nuclear) medicine?
4. Technical developments in nuclear medicine: how to instil RP from the outset?

The workshop conclusions and recommendations will summarise the main points of the presentations and the discussions held during the Working Groups.

*20<sup>th</sup> EAN workshop 2.-4. October 2023  
ALARA for interventional radiology & nuclear medicine*

## The Venue

The Workshop takes place at

AGES  
Spargelfeldstraße 191  
1220 Vienna  
Austria

It can be reached by public transport with the underground **U1** (red line) to **Kagranner Platz** and then with the bus **24A** to **Breitenleer Straße, Spargelfeldstraße**. On the other side of the crossover are the premises and already leading signs. The entrance is 300 m from the bus station.

<https://goo.gl/maps/uK5CxB9Hv2ch5y8A>





## Social Dinner

A social dinner will be organised in the centre of Vienna on Monday evening. It is optional and costs 50 €. Please enlist at the registration.

## Technical Visit

MedAustron, the cancer treatment and research centre is located in Wiener Neustadt, Lower Austria, about 50 kilometres south of Vienna. It is unique in Austria and also one of only six comparable centres worldwide. MedAustron works as an independent outpatient clinic, but is networked with Austrian and international clinics, universities and research institutes.

On Wednesday there will be the possibility to visit MedAustron. A bus will be provided. Please enlist at the registration, the visit is limited to 30 persons and costs 40 €.

## Accommodation

Close to the Venue are:

[Hotel22](#) and [Motel22](#)

Furthermore we can recommend:

[Arcotel Donauzentrum](#), [Arcotel Kaiserwasser](#), [Bassena Wien Messe Prater](#), [Bassena Wien Donaustadt](#)

Any hotel near the underground U1 is suitable for reaching the venue, especially northeast of the city center.



## Programme Committee

<b>Mrs. Penelope Allisy-Roberts</b>	European Federation of Organisations for Medical Physics
<b>Mr. Sylvain Andresz</b>	Nuclear Protection Evaluation Centre (CEPN), France
<b>Mr. Sotirios Economides</b>	Greek Atomic Energy Commission (EEAE), Greece
<b>Mr. Franz Kabrt</b>	Austrian Agency for Health and Food Safety, Austria
<b>Mrs. Julie Morgan</b>	UK Health Security Agency (UKHSA), United Kingdom
<b>Mrs. Sharan Packer</b>	Society for Radiological Protection (SRP), United Kingdom
<b>Mr Arturo Perez Mulas</b>	Spanish Nuclear Safety Council (CSN), Spain
<b>Mr. Andy Rogers</b>	Nottingham University Hospitals NHS Trust, United Kingdom
<b>Mrs. Caroline Schieber</b>	Nuclear Protection Evaluation Centre (CEPN), France
<b>Mr. Nicolas Stritt</b>	Swiss Federal Office of Public Health (SFOPH), Switzerland
<b>Mr. Fernand Vermeersch</b>	SCK CEN, Belgium

## Programme

### Monday 2.10.2023

08:30 Registration

08:50 **Welcome and introduction**

**Session 1: Setting the Scene and ALARA Challenges in Europe and professional bodies**

**Chairs: Mr. Sylvain Andresz & Mrs. Julie Morgan**

09:00 **IAEA activities on RP in interventional procedures**, *Mr Ola Holmberg, Head of Radiation Protection Patient Unit, International Atomic Energy Agency (IAEA), Vienna, Austria*

09:15 **EFOMP activities with regard to ALARA in interventional medicine (and new radiopharmaceuticals)**, *Mr Andy Rogers (EFOMP), Nottingham University Hospital (NUH), United Kingdom*

09:30 **ALARA in medical applications of ionizing radiation: HERCA WG-MA experience**, *Mrs. Barbara Godthelp (Chair of the WG), Authority for Nuclear Safety and Radiation Protection (ANVS), The Netherlands*

09:45 **The Good, the Bad and the Ugly in nuclear medicine**, *Elizabeth Reeves, UK Health & Safety Executive (HSE), United Kingdom*

10:00 **Questions**

10:20 ☕ Coffee break ☕

### **Session 2: Tools for ALARA**

**Chairs: Mrs Penelope Allisy-Roberts & Mr. Andy Rogers**

10:50 **Staff exposure and medical staff monitoring in interventional practices**, *Mr. Paolo Ferrari (EURADOS WG12), ENEA, Radiation Protection Institute, Italy*

11:05 **Personalized nuclear medicine imaging and radionuclide therapy: medical physics perspectives**, *Prof. Dr. Kristof Baete, University Hospitals Leuven & KU Leuven, Belgium*

- 11:20 **Feedback from a *busy* interventional radiology department - Focus on good practices, Prof. Niki Bergans University Hospitals Leuven & Faculty of Medicine, Belgium**
- 11:35 **Questions**
- 12:00  Lunch 
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- 13:10 **Computational dosimetry as a tool to optimize staff radiation protection during interventional procedures, Filip Vanhavere SCK CEN, Belgium**
- 13:25 **Evaluation of the performance of shielding protective equipment in interventional procedures, results from the MEDIRAD project, Filip Vanhavere SCK CEN, Belgium**
- 13:40 **Current Technologies enabling patient and staff reduction in IR, Mr. Andy Rogers, Nottingham University Hospital (NUH), United Kingdom**
- 13:55 **On managing occupational dose and patient dose, in an integrated manner... Mrs. Hilde Bosmans, KU Leuven, Belgium**
- 14:10 **Questions**
- 14:20 **Introduction to working groups**
- 14:30  Coffee break 

### Working Groups – Round 1

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15:00 **Group 1:** The challenges for the optimization of patients and workers in interventional radiology

**Group 2:** What are the ALARA tools available in IR? How to be sure they are usable?

**Group 3:** What are the elements of a good ALARA culture in medicine?

**Group 4:** Technical developments in nuclear medicine: how to instil RP from the outset?

17:00 **End of day**

19:00  **Social dinner** 

**Heuriger Gigerl,**

Rauhensteingasse 3, Blumenstockgasse 1010 Wien [gigerl.at](mailto:gigerl.at)

Stephansplatz Station, U-Bahn Line 1

Tuesday, 3.10.2023

**Session 3: Focus on (new) radiopharmaceuticals**

**Chairs: Mr. Nicolas Stritt and Mr. Sylvain Andresz**

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- 09:15 **Promising radionuclides for radiopharmaceuticals in the future**, *Dr. Roland Müller, Seibersdorf Laboratory, Austria*
- 09:30 **Extremity doses in nuclear medicine and influence of new radionuclides**, *Mr. Robert Kollaard (EURADOS WG12), Nuclear Research and consultancy Group (NRG), The Netherlands*
- 09:45 **The medical physicist role in clinical trials with new radionuclides**. *Mrs. Rocío Ramos Membrive, Clinica Universidad de Navarra, Spain*
- 10:00 **Questions**
- 10:20 ☕ Coffee break ☕
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- 10:50 **Operational radiation protection at MEDICIS: a CERN facility for the production of non-conventional isotopes for medical research**, *Mr. Markus Widorski, European Organization for Nuclear Research (CERN), Switzerland*
- 11:05 **Radiation protection for new radionuclides in nuclear medicine**, *Mr. Célian Michel, Medical Radiation Protection Expertise Unit, Institute for Radiation Protection and Nuclear Safety (IRSN), France*
- 11:25 **TBA**, *Mrs Veronika Rosecker Technical University of Vienna*
- 11:40 **Upcoming radiation protection issues with new radiopharmaceuticals**, *Dr Samantha Terry, Kings College London, United Kingdom*
- 11:55 **Questions**
- 12:15 🍴 Lunch 🍴

**Session 4: Education and training, culture**

**Chairs: Mrs. Caroline Schieber & Mr Sotrios Economides**

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- 13:15 **HERCA Working Group on Education and Training, Sotirios Economides** (*Chair of the Working Group*), *Greek Atomic Energy Commission (EEAE), Greece*
- 13:30 **European Training and Education for Medical Physics Experts (EUTEMPE): an EFOMP initiative, Pr. Hilde Bosmans**, *Medical Radiation Physics in Radiology, UZ Leuven Belgium*
- 13:45 **Radiation protection Culture in Interventional Radiology – Perspective from the UK and the IRPA TG, Mrs Claire-Louise Chapple** (*Chair of WG*), *The Newcastle-upon-Tyne Hospital, United Kingdom*
- 14:00 **Development of a framework for the continuous education of medical professionals on patients' radiation protection, Mrs Karine Tack**, *French Nuclear Safety Authority, France*
- 14:15 **Receptivity to expert advice, education and training is highly dependent on situational and cultural context, Mr Hugh Wilkins**, *Radiation Consultancy Services Ltd, United Kingdom*
- 14:30 **Questions**
- 14:50 ☕ Coffee break ☕

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**Discussion in Working Groups – Round 2**

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- 15:15 Group 1: The challenges for the optimization of patients and workers in interventional radiology  
Group 2: What are the ALARA tools available in IR? How to be sure they are usable?  
Group 3: What are the elements of a good ALARA culture in medicine?  
Group 4: Technical developments in nuclear medicine: how to instil RP from the outset?
- 17:00 **End of day**

Wednesday, 4.10.2023

### Conclusion

09:10 **Feedback from Group 1**, *Rapporteur from Group 1*

09:30 **Feedback from Group 2**, *Rapporteur from Group 2*

09:50 **Feedback from Group 3**, *Rapporteur from Group 3*

10:10 **Feedback from Group 4**, *Rapporteur from Group 4*

10:30 ☕ Coffee break ☕

11:00 **Conclusions and recommendations of the workshop**

12:00 🍴 Lunch 🍴

**End of Workshop**

13:00 **Technical Visit to MedAustron** (optional; separate admission required) estimated comeback at 17:00

