

20<sup>th</sup> European ALARA Network workshop

**ALARA**  
*for interventional radiology  
& nuclear medicine*



# Introduction

Sylvain Andresz, CEPN, France  
Julie Morgan, UKHSA, UK



AGES, Vienna, Austria



2-4 October 2023

## Why are we here?

**1996**

Fundation of EAN

**20**

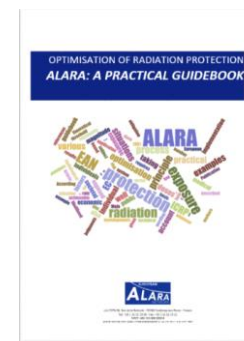
Organizations members

**20**

Workshops organized

**50**

Newletters published



Sub-networks  
Working groups  
Survey  
ALARA Book

# Why are we here?

Chapter 1 – Focusing on key ALARA themes (KAT) \_\_\_\_\_

	Objectives and activities	Connection
<b>PLANNING TOPICAL WORKSHOPS</b>		
KAT1	Investigate a workshop (or several) on medical-based topics: <ul style="list-style-type: none"> <li>Interventional radiology</li> <li>New imaging techniques</li> <li>Production and use of (new) radio-pharmaceuticals</li> </ul>	Medical associations (EFRS, EFOMP, EURAMED, Manufacturers COCIR)
KAT2	Investigate a workshop on the management of alpha exposure in different sectors	
KAT3	Investigate a workshop on NORM exposure, in connection with ENA-NORM.	ENA-NORM
KAT4	Other potential topics that can be investigated include: <ul style="list-style-type: none"> <li>The implementation of the Euratom Directive 2013/59 (specific</li> </ul>	

- Key ALARA themes in EAN Strategic Agenda
- Operational challenges in IR
- ALARA for patients
- RP issues in nuclear medicine

*EAN Newsletter 48, 2022*

EAN Strategic Agenda 2021-2026

## Application of the optimization principle (ALARA 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 and training, culture

## Why are we here?



# Working group themes

1. The challenges for the optimization of patients AND workers in interventional radiology



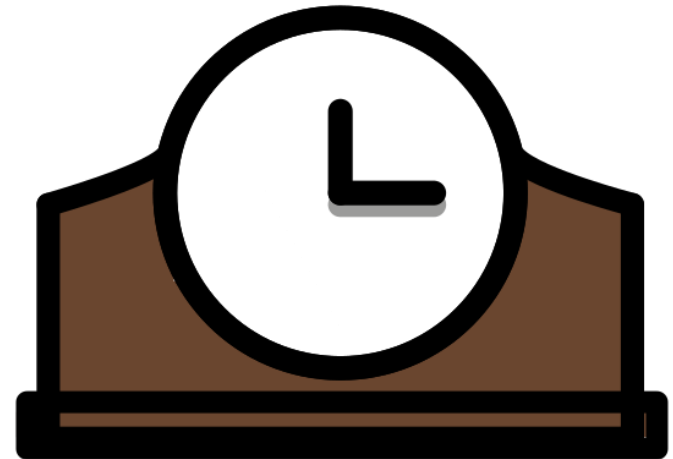
2. What are the ALARA tools available in IR?  
Usages and usability?

3. What are the elements of a good ALARA culture in (nuclear) medicine?

4. Technical developments in nuclear medicine: how to instill RP from the outset?

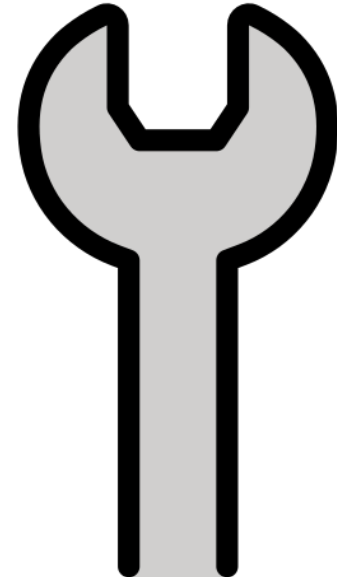
# Working Group Timetable

- **Monday: 14h30–17h00**
  - Round table, introductions
  - Preliminary discussions
  - Night thoughts
- **Tuesday: 14h30–17h00**
  - Discussions
  - Preparation of recommendations (→ PowerPoint)
  - Brief meeting with WG facilitators
- **Wednesday**
  - 09h10–10h10: WG report back
  - 11h00–12h00 Workshop conclusions



# Working Group operation

- Representatives from each working group
  - Facilitator (TBD for WG 2 & 4)
  - Rapporteur (TBD)
- Topics
  - Questions are provided
  - To get you started
  - No limit
- Conclusions and Recommendations
  - By end of Day 2
  - PowerPoint (few slides)
  - Short meeting with EAN representatives
  - Conclusions (context, trends, techniques, issues...)
  - Recommendations (to whom, ...)



# Working Group composition

Working group	Participant	
<b>Working group 1, The challenges for the optimization of patients AND workers in interventional radiology</b>	<p>Gregor Vreclj, EKOTEH Dosimetry, Croatia Paolo Ferrari, ENEA, Italy Helmuth Guss, LKH, Austria Karine Tack, ASN, France</p>	<p>Penelope Allisy Robert, EFOMP, France <b>Andy Rogers, NUH, United Kingdom</b> Niki Bergans, KU keuven, Belgium Hilde Bosmans KU Leuven, Belgium Julie Morgan, UKHSA, United Kingdom</p>
<b>Working Group 2 : What are the ALARA tools available in IR? Usages and usability?</b>	<p>Tea Turkalj, EKOTEH Dosimetry, Croatia Samantha Terry, King's College London, United Kingdom Laura McEaney, EPA, Ireland Shaded Khan, RCS Ltd, United Kingdom</p>	<p>Michaela Vostrakova, SUJB, Czech Republic Sylvain Andresz, CEPN, France Wolfgang Wallisch, Wiener Gesundheitsverbund Klinik Ottakring, Austria</p>
<b>Working Group 3: What are the elements of a good ALARA culture in (nuclear) medicine?</b>	<p>Caire Louise Chapple, Newcastle-upon-Tyne Hospital, United Kingdom Hugh Willkins, RCS Ltd, United Kingdom Alexandra Kamp, BfS, Germany Andrea Svobodova, SUJB, Czech Republic</p>	<p><b>Caroline Schieber, CEPN, France</b> Petra Gröger, Fachhochschule Wiener Neustadt, Austria Roclo Ramos Membrive, Clínica Universidad de Navarra, Spain Sotirios Economides, GAEC, Greece</p>
<b>Working group 4: Technical developments in nuclear medicine: how to instil RP from the outset?</b>	<p>Mathieu Dufлот, AFCN, Belgium Kristof Baete, ZU Leuven, Belgium Barbara Godthelp, ANVS, The Netherlands Robert Kollaard, NRC, The Netherlands Filip Vanhavere, SCK CEN, Belgium</p>	<p>Celian Michel, IRSN, France Marcel Schouwenburg, Delft University of Technology, The Netherlands Markus Widorski, CERN, Switzerland Nicolas Stritt, SFOPH, Switzerland</p>