

EURADOS Working Group 2

Harmonization of Individual Monitoring in Europe

Motivation

The motivation of WG02 is to foster Harmonization of Individual Monitoring in Europe. In order to achieve this goal, three main tasks were identified: the organization of regular self-sustained intercomparison (IC) exercises, the improvement of quality and reliability in measurements, dose reporting and record keeping, as well as the dissemination of the generated activity.

The organization of regular IC exercises provide to the individual monitoring services a method to show compliance with the ISO/IEC 17025 requirements, as accreditation in conformity to this standard is becoming more and more important in Europe.

Under the improvement of quality and reliability, several activities have been identified, including the need to ensure continuing and future personnel skills through training, and the sharing of best practice through developing best-practice guides, workshops and networking.

Best practice and recommendations are further shared by dissemination activities though, in addition to training courses, publications and presentations at various scientific meetings and/ or in journals.

EURADOS WG02 has been active since 1997 and has regularly published the results of its activity in the open literature (e.g. *Radiation Protection Dosimetry*, *Radiation Measurements*) and through EURADOS Reports.

Aims

> Harmonization of Individual Monitoring in Europe.

Harmonization does not mean that all countries must carry out individual monitoring identically, but it should mean that:

- **all IMSs achieve high levels of quality and reliability**, so that similar standards of worker protection are achieved.
- **data from any IMS** (in whatever country) **can be understood by, and used by, all stakeholders** (including IMSs in other countries)¹.

WG02 meets/ has met these aims by:

- the publication of technical recommendations.
- the organization of regular and self-sustained intercomparison exercises.
- research, such as surveys.
- training courses

¹ Subject to all relevant data protection requirements.

- networking actions: Learning network, online forum
- dissemination, via publications (open literature, EURADOS reports) and presentations
- maintaining a network of contacts comprising individual monitoring services (IMS), national dose registers (NDR) and authorities.

Actions

Completed (since 2008)

- Publication of RP 160, The EC Technical Recommendations (EU-Trimer project) – 2009
- The list of WG02 contact persons and IMS in Europe was updated.
- A EURADOS QA survey 2012 was prepared, distributed to all IMS in the WG02 list of contacts, and results were collected and analysed. Report published.
- WG02 work was disseminated at various meetings including the Individual Monitoring Conference 2015, Brugge.
- “Learning Network” events at the EURADOS Annual Meetings in 2017 and 2018.
- Establishment of an Online Forum, “IMS-DG” (www.ims-dg.org)

Intercomparisons

IC2008ph	Whole body / photon fields	Completed, report published
IC2009ext	Extremity / photon and beta fields	Completed, report published
IC2010ph	Whole body / photon fields	Completed, report published
IC2012ph	Whole body / photon fields	Completed, report published
IC2012n	Whole body / neutron fields	Completed, report published
IC2014ph	Whole body / photon fields	Completed, report in draft
IC2015ext	Whole body / photon fields	Completed, report in preparation
IC2016ph	Whole body / photon fields	Completed, report in preparation

Participants’ meetings for the intercomparisons took place at relevant international conferences or at the appropriate EURADOS annual meeting.

Training courses on the implementation of “RP160”

Courses were successfully delivered as follows.

- Krakow 2012
- Zagreb 2013
- Lisbon 2015
- Florence 2017.

In all cases, feedback was positive. Content has evolved to incorporate new developments.

In Progress

- Intercomparison programme continues with IC2017n (neutron) and IC2018 (whole body photon)
- Continued development of online forum for IMSs.
- Develop guidance document for interpretation of ISO 17025 for IMSs
- Assess needs for a best-practice guide for IMSs on maintenance of dose records, and data protection.

Planned

- Further Learning Network event at EURADOS AM2019.
- Further IC for extremity photon and, with WG12, eye lens dosimeters, 2019.

Members

Chairperson

- Phil Gilvin PHE (UK)
Email: phil.gilvin@phe.gov.uk

Secretary

(vacant)

Full members

Joao Alves	Instituto Superior Técnico	PORTUGAL
Panagiotis Askounis	Greek Atomic Energy Commission	GREECE
Robert Bernat	Ruder Boškovic Institute	CROATIA
Liam Buchanan	AWE	UK
Codrut Cherestes	Dositracker	ROMANIA
Elena Fantuzzi	ENEA	ITALY
Markus Figel	Helmholtz Zentrum München	GERMANY
Phil Gilvin	Public Health England	UK
Tom Grimbergen	NRG Radiation & Environment	NETHERLANDS
Michael Hajek	International Atomic Energy Agency	AUSTRIA
Oliver Hupe	Physikalisch-Technische Bundesanstalt	GERMANY
Sabine Mayer	Paul Scherrer Institute	SWITZERLAND
Andrew McWhan	Cavendish Nuclear Limited	UK
Biljana Petrovic	Public Health Institute of Republic of Srpska	BOSNIA AND HERZEGOVINA
Henrik Roed	Danish Health Authority	DENMARK
Ana Maria Romero	CIEMAT	SPAIN
Francesco Rossi	AOU Careggi	ITALY
Hannes Stadtmann	Seibersdorf Labor GmbH	AUSTRIA

Corresponding Members

WG02 has approximately 45 corresponding members.

Additional information

See "Working Groups" section of EURADOS web site.