

EURADOS Working Group 2

Harmonization of Individual Monitoring in Europe

Motivation

The motivation of WG2 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 WG2 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.

WG2 meets/ has met these aims by:

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

¹ Subject to all relevant data protection requirements.

- training courses
- 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 WG2 contact persons and IMS in Europe was updated.
- A EURADOS QA survey 2012 was prepared, distributed to all IMS in the WG2 list of contacts, and results were collected and analysed. Report published.
- WG2 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 and continued delivery of an Online Forum, “IMS-DG” (www.ims-dg.org)

Intercomparisons

IC2008	Whole body / photon fields	Completed, report published
IC2009ext	Extremity / photon and beta fields	Completed, report published
IC2010	Whole body / photon fields	Completed, report published
IC2012	Whole body / photon fields	Completed, report published
IC2012n	Whole body / neutron fields	Completed, report published
IC2014	Whole body / photon fields	Completed, report published
IC2015ext	Extremity / photon and beta fields	Completed, report in preparation
IC2016	Whole body / photon fields	Completed, report in preparation
IC2017n	Whole body / neutron fields	Completed, report in preparation
IC2018	Whole body / photon fields	Completed, report in preparation
IC2019ext	Extremity / photon and beta fields	In progress

Participants’ meetings for the intercomparisons take 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
- > Paris 2019

In all cases, feedback was positive. Content has evolved to incorporate new developments. Future training courses will continue to refer extensively to RP160 whilst evolving to meet changing needs.

In Progress

- > Intercomparison programme continues with IC2019ext (Extremity and eye lens / photon and beta fields). Now including eye lens dosimeters.
- > Continued development of online forum for IMSs.
- > Develop guidance document for interpretation of ISO 17025 for IMSs

Planned

- > Further Learning Network event at EURADOS AM2020.
- > Further IC for whole body photon dosimeters, 2020.

Members

Chairperson

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

Secretary

- Raul Martín Garcia CIEMAT (Spain)
➤ Email: r.martin@ciemat.es

Membership

Working Group 2 has:

- 19 full members from 13 countries
- 50 corresponding members

Additional information

See EURADOS web site (www.eurados.org).