

## Announcement of the EURADOS Intercomparison 2024 for extremity dosimeters (IC2024ext)

EURADOS, through its Working Group 2 (WG2), has established a programme self sustained dosimetry intercomparisons (IC) for individual monitoring services (IMS) with the aims of improving the harmonization of individual monitoring and helping IMS to comply with ISO 17025. Eight ICs for whole body dosimeters, two ICs for extremity dosimeters and one combined IC for extremity and eye lens dosimeters have been completed since 2008. **EURADOS now has the pleasure of announcing IC2024ext for extremity dosimeters.**

### Scope

The 2024ext intercomparison is for extremity dosimeters (ring, stall or wrist) used *routinely* for the assessment of  $H_p(0.07)$  and designed to measure either photons and beta or photons only. Irradiations will be carried out in accredited or primary standard European irradiation facilities in terms of  $H_p(0.07)$  in the following ranges:

- > Photon energy: 16 keV to 662 keV
- > Beta mean energy: 250 to 1000 keV
- > Dose equivalent: 0.5 mSv to 1 Sv
- > Angle of incidence:  $\pm 60^\circ$

### Intercomparison procedure

IMS wishing to participate will complete the application form which can be accessed after registration on the IC2024ext on-line platform (IOP). The participating IMS will be informed when the applications have been accepted.

On acceptance of the application, the participants will receive an invoice from EURADOS and instructions for dosimeter labelling and despatch.

**The participation fee is 1350 Euro per dosimetry system. EURADOS sponsors will pay 1215 Euro for one system and 1350 Euro for any additional systems. Fees must be transferred in advance to the EURADOS bank account (bank transfer costs have to be paid by the participant) after receiving the invoice from EURADOS. Refunding will only be possible in the unlikely event that the intercomparison is cancelled by EURADOS.**

The fees have been calculated on a non-profit basis and any surplus money will be used to support the harmonisation of individual monitoring and other EURADOS activities.

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Filip Vanhavere (Chairperson)  
SCK CEN  
Boeretang 200  
2400 Mol, Belgium  
Phone: +32 14 332859  
filip.vanhavere@eurados.org

Oliver Hupe (Vice Chairperson)  
Physikalisch-Technische Bundesanstalt (PTB)  
Braunschweig, Germany  
Phone: +49 531 592 6300  
oliver.hupe@ptb.de

EURADOS e.V.  
[www.eurados.org](http://www.eurados.org)  
[office@eurados.org](mailto:office@eurados.org)

USt-IdNr. (VAT Reg.No.): DE283696163

For this intercomparison a total of 30 dosimeters are required per registered dosimetry system.

- > 20 dosimeters for irradiation
- > 10 transit / spare dosimeters

After the irradiations have been carried out, the co-ordinating laboratory will return the dosimeters to the participants for readout. Within one month from receiving the dosimeters the participants will submit the results in terms of  $H_p(0.07)$  in accordance with the procedures specified on the IOP.

After the deadline for submitting results to the co-ordinating laboratory has passed, participants will receive details of their response values. Change of results after distribution of the irradiation data will only be possible in case of technical or administrative errors made by the irradiation laboratory or the co-ordinating laboratory.

After confirmation of the results, EURADOS will provide the participants with a "Certificate of Participation" including information on the irradiation qualities, doses, response values and overall uncertainties for all irradiations.

### Intercomparison Report

The Organization Group will prepare a report summarizing the results of the intercomparison. The report will include the names of the IMS that have participated, the types of dosimeter and a photograph of dosimeters used but the results will be presented anonymously.

Intercomparison results will be treated by EURADOS as confidential data and IMS identity will not be disclosed. Data used in technical and scientific studies will be anonymous. The Organization Group has appropriate procedures agreed to ensure confidentiality and the participants results will be known only to a minimum number of persons within the Organization Group.

### Provisional Schedule

Announcement - call for participants	Early March 2024
<b>*Registration of participants and systems</b>	March 2024
Deadline for IMS sending application forms	1 April 2024
Deadline for IMS sending dosimeters to Coordinator	1 May 2024
Irradiations	May – Jul 2024
Coordinator sending dosimeters for readout	Aug 2024
Deadline for IMS sending dosimeters results to Coordinator	1 month after receipt
Final results available	Nov 2024
<b>IMS receiving certificates of participation</b>	<b>Dec 2024</b>

### EURADOS Intercomparison 2024ext Organization Group

Tom Grimbergen	Mirion Dosimetry Services, NL
Hannes Stadtmann	Seibersdorf Labor GmbH, AT
Markus Figel	Mirion Medical GmbH, DE
Ana Romero	Ciemat, ES
Wioletta Dobrzynska	Cavendish Nuclear, UK
Andrew McWhan	Charthouse Data Management Ltd (UK)

### Coordinating Laboratory:

Argiro Boziari

Greek Atomic Energy Commission, Greece

Contact:

[ic2024ext@eurados-intercomparison.org](mailto:ic2024ext@eurados-intercomparison.org)

Registration:

<https://www.eurados-intercomparison.org/ic2024ext/>