

## Announcement of the EURADOS Intercomparison 2020 for whole body dosimeters (IC2020<sub>ph</sub>)

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. Six 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 IC2020<sub>ph</sub> for whole body dosimeters.**

### Scope

The 2020<sub>ph</sub> intercomparison is for whole body dosimeters used for the assessment of  $H_p(10)$  and/or  $H_p(0.07)$ . Irradiations for photons, will be carried out in an accredited or primary standard European irradiation facility in terms of  $H_p(10)$  and  $H_p(0.07)$  in the following ranges:

- > Energy: 30 keV to 1.3 MeV
- > Dose equivalent: 0.2 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 IC2020<sub>ph</sub> 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 (free of bank transfer costs) 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.

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  $H_p(10)$  and/or  $H_p(0.07)$  in accordance with the procedures specified on the IOP.

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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 – dates to be confirmed**

Announcement - call for participants	August 2020
<b>*Registration of participants and systems</b>	<b>September 2020</b>
Deadline for IMS sending application forms	30 September 2020
Deadline for IMS sending dosimeters to Coordinator	31 October 2020
Irradiations	Nov 2020 - Jan 2021
Coordinator sending dosimeters for readout	January 2021
Deadline for IMS sending dosimeters results to Coordinator	1 month after receipt
Final results available	March 2021
<b>IMS receiving certificates of participation</b>	<b>April 2021</b>

### **EURADOS Intercomparison 2020 Organization Group**

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