

ICRP Committee 2 Meeting

3-5 October 2025 – Abu Dhabi, UAE

This is the first meeting of ICRP Committee 2 “Doses from Radiation Exposure” in the new 2025-2029 Term.

Update on C2 Task Groups

TG 36 “Radiation doses to patients in diagnosis nuclear medicine”. An online workshop was organized on July 29. TG 36 report was submitted for public consultation up to September 2025. Not many comments were received. The work will continue within TG 130 for pregnancy and breast feeding.

TG 95 “Internal Dose Coefficients”. PIR series dealing with internal exposures of members of the public will replace ICRP Publications 56 and 119. The reports include 6 age-groups (from 3 months infant to adult person), data for inhalation and ingestion, no bioassay functions, and AMADs from 0.001 μm to 20 μm . PIR Part 1 will be published as ICRP Publication 158 in 2025. PIR Part 2 (actinides and lanthanides) is in press. Part 3 is approved by MC for public consultation (3 months). Parts 4-5 are expected for 2027-2028. There is a paper in progress, explaining the differences between the old and new dose coefficients.

TG 103 “Mesh-Type Reference Computational Phantoms”. The report on the pregnancy mesh phantoms was in public consultation until July 2025, publication is expected in 2026. Preliminary breast feeding phantom was developed to be used by TG 130. The detailed heart model is finished (NCI model is applied for heart chambers, UF model for coronary arteries); a research paper will be published in 2025.

TG 112 “Emergency Dosimetry”. McSEE code for external exposures is in optimization process after validation using IAEA accident cases; a beta version will be available to testers (test recruitment: 62 participants, 18 countries). Regarding internal exposures, a new software is available for the generation of dose coefficients; short term integrated organ absorbed doses and age dependent bioassay functions are calculated.

TG 113 “Dose coefficients for diagnostic x-ray imaging”. Work program includes radiography, CT and Fluoroscopy; CT and radiography for pregnant woman and foetus, and Fluoroscopy Guided interventions. The Radiography Report will be ICRP Publication 162, in-press with ICRP DOSE VIEWER-Radiography. CT Report will be available for public consultation by spring 2026, as well as the dosimetry of the pregnant patient and fetus for CT. Regarding Fluoroscopically Guided Interventions, all data have been collected, computations are possible for the entire cohort, 385 patient organ doses were reconstructed.

New C2+C3 TG 130 - Doses from Diagnostic Radiopharmaceuticals During Pregnancy and Breastfeeding.

Other Task Groups with C2 Members

TG 115 “Doses and risks for RP of astronauts” (C1)

TG 116 “Radiological Protection aspects of imaging in radiotherapy” (C3)

TG 118 “RBE, Q, wR” (C1)

TG 119 “Cardiovascular diseases” (C1)

TG 120 “RP for Radiation Emergencies and Malicious Events” (C4)

TG 121 “Effects of Ionising Radiation Exposure in Offspring and Next Generations” (C1)

TG 128 “Individualisation and Stratification in Radiological Protection: Implications and Areas of Application” (under all committees)

Other Topics Discussed During the Meeting

- A new edition of EURADOS-ICRP Training Course on “Theory and Practical Application of Codes for the Determination of Dose After Internal Contamination” will be organized by BfS in Munich in 2026.

François Paquet will replace Nina Petoussi-Henss as C2 observer for the IAEA coordinated research project on dosimetry for terrestrial animals and plants.

- A new C2 WP is proposed to deal with the application of Artificial Intelligence in dosimetry.
- Next C2 on-line meeting will take place on May 5th, 2026. A new on-site meeting will be organized on October 22-24, 2026, in Korea, hosted by Yeon Soo Yeom from Yonsei University.
- A joint C1+C2 web meeting is proposed for the discussion on (1) wT, wR, fundamentals on how the values are calculated and (2) dose to embryo/foetus.