

Summary of the work of ICRP C3 meeting, 7-12 Nov. 2009. Porto, Portugal

The Committee 3 met on 7-12 Nov. 2009

Vano ELISEO Prof (Spain) Chairman

Cosset JEAN-MARC Prof (France) Vice-Chairman

Rehani MADAN M. Prof (IAEA) Secretary

Åhlström Riklund KATRINE Prof (Sweden)

Gusev IGOR A. Dr (Russia)

Hopewell JOHN W Prof (UK)

Khong PEK-LAN Prof (Hong Kong, China)

Mattsson SÖREN Prof (Sweden)

Ortiz Lopez PEDRO Dr (Spain)

Rosenstein MARVIN Dr (USA)

Yonekura YOSHIHARU Dr (Japan)

Yue BAORONG Prof (China)

Perez Maria del Rosario Dr. (WHO observer)

Apologies were received from Dr. Mario Baeza, Prof. Hans Ringertz and IEC Observer Prof Jim Malone.

1. C3 was informed about Pre-ICRP meeting educational session held in Porto on 7th November (14:00 to 17:00) on “ICRP and Radiological Protection in Medicine”. There was a unanimous feeling that such sessions should be made a regular activity with meeting every year. The presentations will be posted in private area of the ICRP website.
2. Documents completed:
 - a. Radiological protection education and training for medical diagnostic and interventional procedures for healthcare staff and students. Main Commission to consider in Porto meeting.
 - b. Avoiding radiation therapy accidental exposures when using new technologies”. Document stands approved and ready to go for publication.
3. Ongoing documents:
 - a. **Secondary cancer risk after modern radiotherapy; practical recommendations** (draft by mid 2010 for consideration and approval by C3 through circulation)
 - b. **Dose to patients from radiopharmaceuticals.** children and new born will be used in future publication. This will also include updated information related radioiodine substances as well as new/improved models for a number of new substances. It is expected that a preliminary biokinetics models for new substances will be available in 2010 and a draft of new radiopharmaceutical publication will be ready for C3 and C2 by 2011.

4. **TG document “Radiation protection for cardiologists performing fluoroscopically guided procedures”.** It is expected that an updated draft will be circulated by Claire Cousins to the members of TG during the next months.
5. **WP: Radiation protection in charged particle radiotherapy:** A proposal for WP was approved with Professor Yoshiharu Yonekura as Chair. Potential cooperation with other ICRP committees will be offered.
6. **WP: Document on protecting children.** Prof Pek-Lan Khong, a pediatric radiologist shall move forward the document. The new version is expected to be available by mid 2010 for circulation to C3 before next meeting.
7. **Follow up of persons accidentally exposed.** A WP with Dr. Igor Gusev was created . It is expected that first draft will be made available for circulation in September 2010 for consideration in next meeting of C3.
8. **Avoiding adverse radiation effects to doctors and patients in fluoroscopically guided procedures** -practical guidelines. A Task Group was created with Madan Rehani as Chair. First draft will be available for next meeting of C3 in October 2010.
9. **Widening the use of reference levels for interventional radiology, digital radiology and new technology.** It was decided to keep a watch on this topic (Action: Pedro Ortiz, Madan Rehani and Eliseo Vano). There will be possibility to have a WP in next meeting of C3. Priority 1.
10. **Screening with ionising radiation in asymptomatic individuals.** A WP was decided with Katrine Ahlstrom Riklund as Chair. A WP proposal was prepared and approved as attached. An outline with tentative contents should be discussed at the next meeting of C3 in October 2010.
11. **Protection in PET/CT and cyclotrons.** In view of two recent documents from the IAEA along with training material that is available for free download from the IAEA website, there is at the moment no need to have additional document by ICRP on this subject.
12. **Radiation dose management for fluoroscopically guided interventional procedures (NCRP Scientific Committee 2-3)** - Marvin Rosenstein presented update indicating expected publication in 2010.
13. **Radiation detriment and effective dose:** There was considerable discussion on application of radiation detriment as an alternative to effective dose when comparing health impact of various sources among population with different age, sex distribution, particularly with regard to medical exposure.
14. Possible effects resulting from **interaction between ionizing and non-ionizing radiations.** Discussions were held. Prof Igor Gussev, Dr. Maria Perez and Prof. Yue Baorong will prepare a short note reviewing the situation.
15. **Future topics:**
 - a. Occupational protection in Brachytherapy. Priority 2.
 - b. Dose reduction resulting from new imaging technology. Priority 2.
 - c. Justification in medical exposure. Priority 1.
 - d. Challenges to obtain dose distribution for workers for relatively high exposure situations (such as fluoroscopically guided interventional procedures). Priority 2.