



SEGUNDA JORNADA SOBRE:
**Novedades y tendencias
en el sistema de protección
radiológica de la ICRP**

En colaboración con:



Actividad del Comité 3 (Protección en Medicina)

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ICRP Comité 3

Protección Radiológica en Medicina

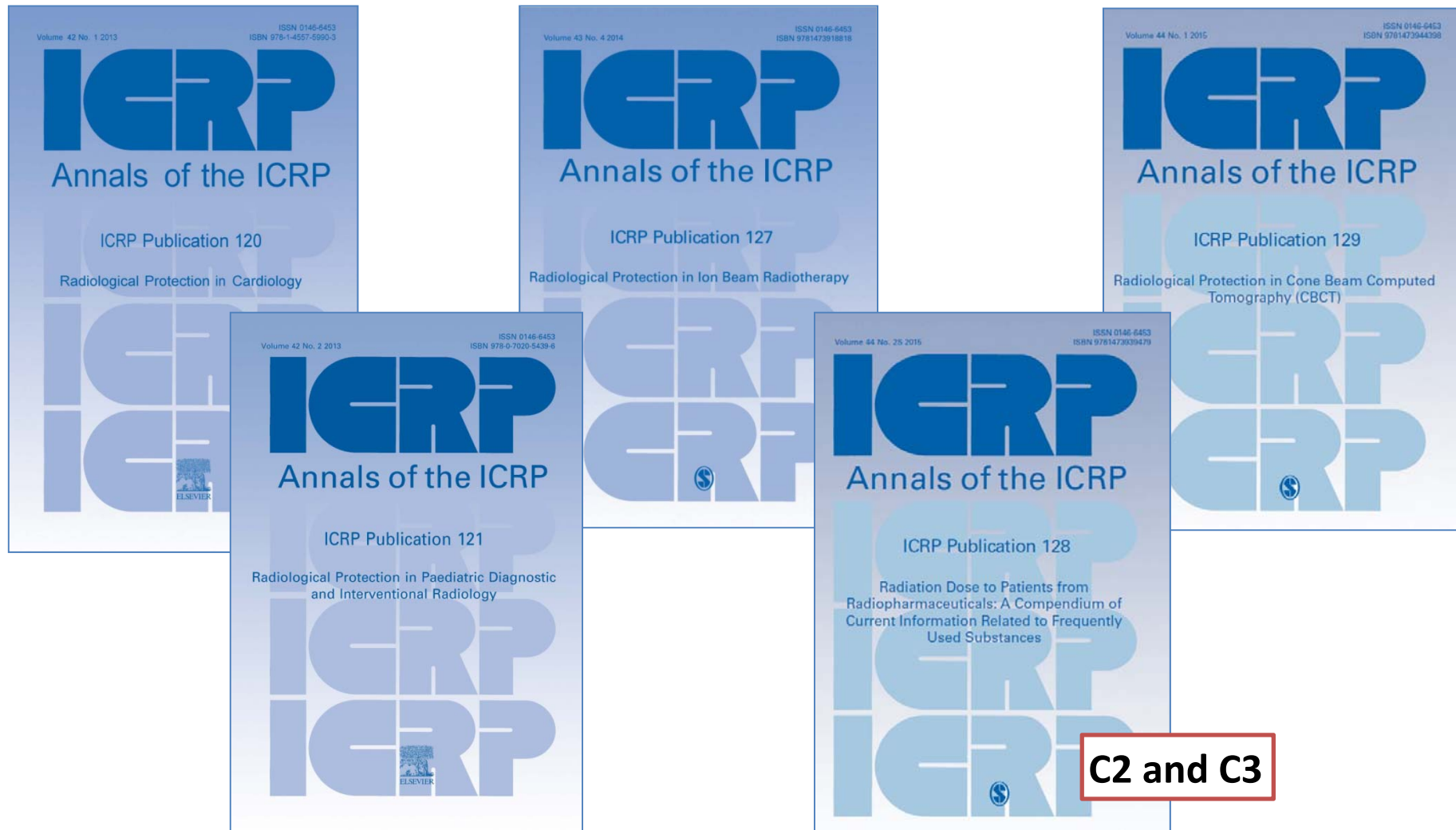
- **Committee 3 (new mandate): addresses protection of persons and unborn children when ionising radiation is used in medical diagnosis, therapy, and biomedical research, as well as protection in veterinary medicine.**



**Comité de
Protección en
Medicina en Abu
Dhabi Octubre 2016
*(faltan algunos
miembros)***

**De izquierda a
derecha y de arriba
abajo: R. Loose; O.
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K.Kang; C. Martin; S.
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K. Ricklung; D.
Miller; E. Vañó; M.
Rehani; P. Ortiz**

ICRP Comité 3: Los documentos más recientes



C2 and C3

ICRP C3 Las publicaciones más recientes

- P120. Radiological Protection in **Cardiology**. Ann. ICRP 42(1), **2013**.
- P121. Radiological Protection in **Paediatric Diagnostic and Interventional Radiology**. Ann. ICRP 42(2), **2013**.
- P127. Radiological Protection in **Ion Beam Radiotherapy**. Ann. ICRP 43(4), **2014**.
- P128. Radiation Dose to Patients from **Radiopharmaceuticals**: A Compendium of Current Information Related to Frequently Used Substances. Ann. ICRP 44(2S), **2015** (with Committee 2).
- P129. Radiological Protection in **Cone Beam Computed Tomography** (CBCT). Ann. ICRP 44(1), **2015**.

¿Qué está haciendo ahora el C3 y qué está previsto hacer en los próximos años? (1)

- The document on “**Diagnostic reference levels for diagnostic and interventional imaging**” after considering comments received through public consultation was approved by C3 and will be sent to the MC before the end of 2016.
- The draft document of the WP on “**Occupational protection issues in interventional procedures (fluoroscopy guided)**” is being refined and expected to be ready for public consultation during the first months of 2017.
- The proposal to create a new TG on “**Radiation protection in medicine related to individual radio-susceptibility**” which await deliberations with C1.



DRAFT REPORT FOR CONSULTATION: DO NOT REFERENCE

ICRP Ref XXXX-XXXX-XXXX
2016 January 1x

Annals of the ICRP

ICRP PUBLICATION 1XX

Diagnostic Reference Levels in Medical Imaging

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DRAFT FOR MC REVIEW PRIOR TO CONSULTATION

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2016 September 16

MC Critical reviewers: D. Cool, C. Cousins

Annals of the ICRP

ICRP PUBLICATION 1XX

Occupational radiation protection issues of
interventions guided by radiological imaging

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***DISCUTIDO POR LA
COMISIÓN PRINCIPAL EN
SHENZHEN, OCTUBRE
2016***

***Se están incorporando los
cambios sugeridos por los
revisores y se espera que
pueda ser aprobado para
consulta pública en los
primeros meses de 2017***

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JOHN DAMILAKIS	PiDRL Project

Comments received: 29 records
<http://www.icrp.org/page.asp?id=256>

¿Qué está haciendo ahora el C3 y qué está previsto hacer en los próximos años? (2)

- TG 89 on “**Occupational Radiological Protection in Brachytherapy**” is on standby.
- The work of the WP on “**Justification of the Use of Ionizing Radiation in Medical Imaging**” requires consensus with participating organizations and will spill over to next term.
- The joint TG 36 of C3 and C2 on “**Doses to patients from radiopharmaceuticals**” is organising surveys of regional and national nuclear medicine organisations to determine the radiopharmaceuticals that should be included in the revised publication. Biokinetic models for new radiopharmaceuticals have been developed.

¿Qué está haciendo ahora el C3 y qué está previsto hacer en los próximos años? (3)

- TG on “**Radiological Protection in Therapy with Radiopharmaceuticals**” is likely to complete work and have approval of C3 by 30th June following which process for approval by MC will start.
- The inputs of C3 on revised draft of TG of MC on “**The Use of Effective Dose as a Risk-related Radiological Protection Quantity**” were provided.
- The draft of WP on “**Radiation and your patient- a guide for health care practitioners**” is likely to web formatted and will be made available for public consultation.
- **The Educational Slides** for Publication 128 and on “How to protect your hands in nuclear medicine work” were approved with minor suggestions.

¿Qué está haciendo ahora el C3 y qué está previsto hacer en los próximos años? (4)

- C3 has identified following topics for **potential WP/TG in future**:
- Framework for **optimization in medical imaging** in particular, for individual patients;
- Radiological protection aspects in **imaging in radiotherapy (IGRT)**;
- Protection of **eye lens, cardiovascular system and brain**: Implications for medicine of the ICRP Publication 118.
- The topic on **monitoring radiation dose quantities and units in imaging and software** for their displaying, capturing and evaluating will be revisited in 2017.

Sugerencias del C3 al documento de prioridades de investigación para el Sistema de PR

- Assessment of lens of the eye, skin, and extremity doses and methods of protection is necessary **to improve occupational protection in interventional and nuclear medicine procedures.**
- Similarly, lens of the eye, skin and organ dose evaluation must be better understood **to improve protection for patients who undergo CT and high-dose interventional procedures.**
- Dosimetric data are needed to help in the **assessment of non-cancer effects (such as cardiovascular and cerebrovascular) in radiotherapy and high-dose imaging procedures.**
- Finally, additional methods need to be developed, on a continuing basis, **to reduce patient dose while maintaining diagnostic information.**

Muchas Gracias