

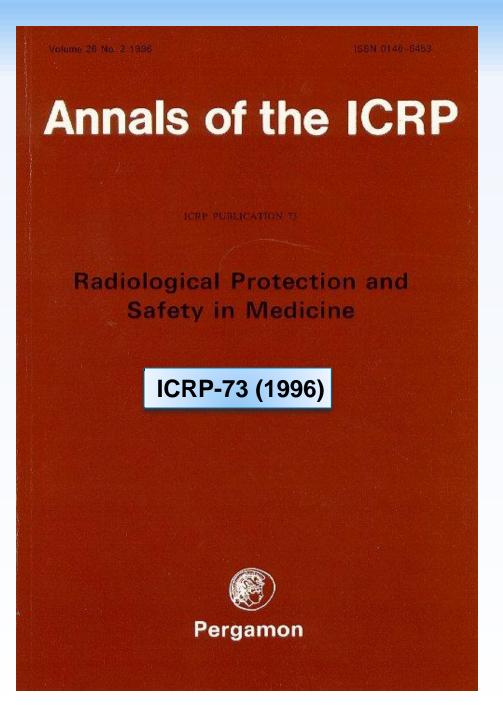




2ND REGIONAL **IRPA WHO IOMP**WORKSHOP ON **RADIOLOGICAL PROTECTION CULTURE** IN **MEDICINE**

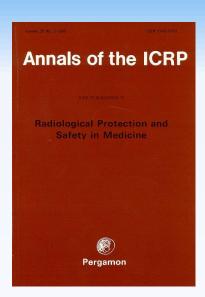
ICRP and Radiation Protection Culture in Medicine

Eliseo Vaño (ICRP C3 Chair)



Management Requirements

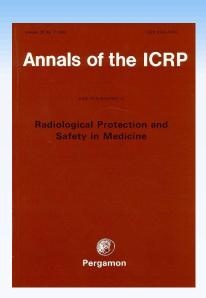
- Requirements, operating instructions, regulatory instruments, and other administrative devices are important, but they are not, of themselves, enough to achieve an appropriate standard of radiological protection and safety.
- Everyone in an undertaking, from the individual workers and their representatives to the senior management, should regard protection and accident prevention as integral parts of their everyday functions. In recent years, these attitudes have become known as a safety culture.



ICRP-73 (1996)

Management Requirements

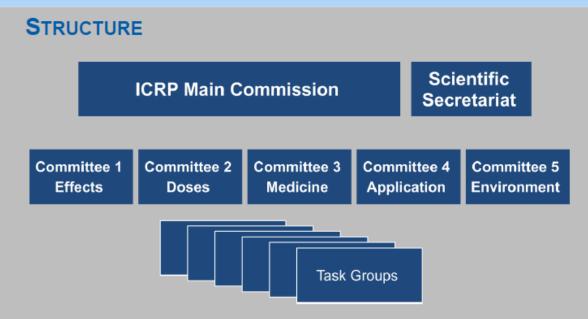
- A safety culture is very important, but it is not self-sustaining. Without continuing regeneration by management action, it ceases to be effective.
- In medicine, a safety culture may be undermined by a tradition that the benefit to the patient justifies overriding the protection of the medical staff.
- In terms of radiological protection, this tradition is now rarely valid. There are few situations (in 1996!!) in which the protection of the staff needs to be prejudiced by the needs of the patient.



ICRP-73 (1996)

- The safety culture should be reinforced by the creation of a formal management structure for dealing with radiological protection.
- These instructions should rake account of any requirements applied to the design of the equipment and of the installation as a whole, and should cover subsidiary operations such as inspection and maintenance.
- If appropriate, the management structure should include a radiation safety committee to give advice on the radiological protection arrangements.





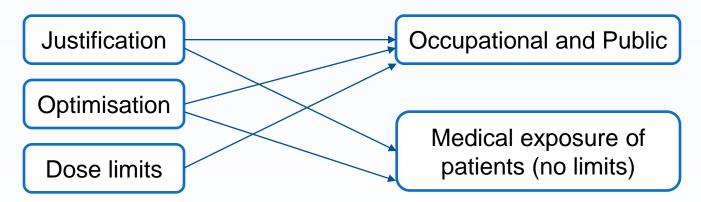
Committee 3, Protection in Medicine: develops recommendations and guidance on the protection of patients, staff, and the public against radiation exposure in medicine.



Patients, Staff, Public (radiation exposure in Medicine)

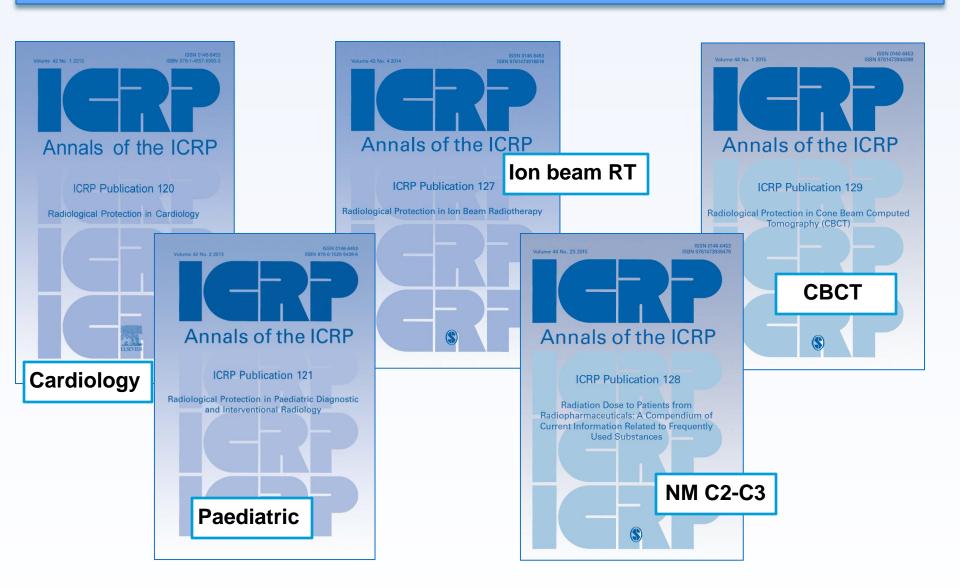
The RP system of ICRP

- Occupational exposures.
- Public exposures.
- Medical exposures of patients (the exposure is intentional and for the direct benefit of the patient).
 - Diagnostic.
 - Interventional.
 - Therapeutic procedures.





ICRP Committee 3: The most recent documents



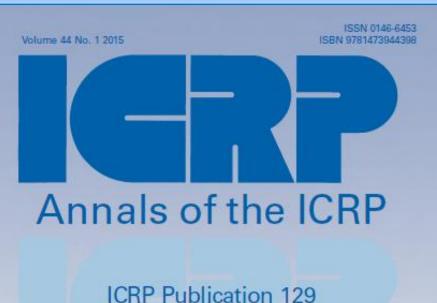
ICRP-121 (Paediatrics)

- The development and regular updating of local, regional, or national diagnostic reference levels (DRLs) to assist in the optimisation process is encouraged.
- Also, regular audits of referral criteria, imaging quality, and imaging technique should be implemented as part of the radiological protection culture.

ICRP-112 (Accidental Exposures in RT)

- The establishment of a safety culture is of paramount importance in the prevention of accidental exposures in radiation therapy.
- Good practice is necessary but not sufficient.
 Detection and avoidance of errors require going beyond good practice, since even a well-designed system of controls and verification can suffer degradation with time if not monitored continuously.
- Hospital administrators and the heads of radiation therapy departments are responsible for cultivating the qualities and attitudes, and for encouraging excellence, particularly in matters related to safety.





ICRP and Quality **Assurance**

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2015







ICRP and QualityAssurance

ICRP Publication 120

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Committee 3, Protection in Medicine: develops recommendations and guidance on the protection of patients, staff, and the public against radiation exposure in medicine.

- Protection of patients, staff and public should be considered in radiation exposure in medicine.
- The principal aim of medical exposures is to do more good than harm to the patient, subsidiary account being taken of the radiation detriment from the exposure of the radiological staff and of other individuals (ICRP-103).
- RP culture should be a relevant part of the quality assurance programmes in Medicine.

Thank you

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