

Interaction between regulatory bodies, health authorities & professional organisations

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Australian radiation regulatory framework



•Six states and two territories + Commonwealth Australia, i.e. nine jurisdictions

Australian Governme

ation Protection and Nuclear Safe

•Each jurisdiction regulates radiation safety & monitors compliance

Australian radiation regulatory framework



ARPANSA

- radiation safety regulator for Commonwealth organisations;
- takes best international practice into account in rulemaking; and

Australian Governme

iation Protection and Nuclear Safe

promotes national uniformity

Australian radiation regulatory framework

•The Radiation Health and Safety Council (RHSC), and the CEO of ARPANSA, may request the Radiation Health Committee (RHC), comprised of State/Territory regulators and ARPANSA + other members, to develop draft policies, codes and standards, in communication with stakeholders;

•to be considered by the jurisdiction and adopted by the Australian Health Ministers for inclusion in the

•National Directory for Radiation Protection which is then mandatory in each jurisdiction



Medical Code & Safety Guides



radiology, nuclear medicine and radiotherapy

Safety Guides

Medical Code & Safety Guides

2002 saw the beginnings of the Medical Code & associated Safety Guides

3 working groups were established to cover the various fields

The working groups consisted of representatives from: Nominated radiation regulators from the States & Territories
Experts in their field, plus secretariat support from ARPANSA
Nominated clinicians & practitioners from their respective professional bodies
Nominated medical physicists from their respective professional bodies





Drafts and the Regulatory Impact Statement were circulated to the appropriate committees, radiation regulators, and finally to the public for comment.

To assist in this process a conference was held 2007 where all interested parties discussed how these documents would impact their world of medical radiation.



Medical Code & Safety Guides

Implementation Issues:

•The States & Territories did not begin to adopt the Code into their legislation until January 2010.







External drivers such as the National Hospital Accreditation Scheme and the National Diagnostic Imaging Accreditation Scheme, want a uniform approach to the compliance of the use of radiation in medicine.



•A liaison panel with ARPANSA, RHC and the Royal Australian & New Zealand College of Radiologists (RANZCR) monitor Medical Code implementation issues.

•ARPANSA has representation on the national Hospital Accreditation Scheme and the National Diagnostic Imaging Accreditation Scheme committees.

•Web information (Inside Radiology) and web-based educational programs for lay public, medical students and professionals



•ARPANSA has designed a tool that will assist clinical practices to create and record their practice diagnostic reference levels (DRLs), initially for CT imaging and in the future, for other diagnostic imaging modalities

•These local DRLs will aid in the creation of national DRLs which has two objectives:

- i. Help to show that the clinical practice is compliant with important sections of the Code
- ii. The ultimate goal of optimising radiation doses delivered to patients

- ARPANSA to host a new Australian Clinical Dosimetry Service
- Providing an integrated approach to medical, planning and dosimetric quality assurance that involves radiation oncologists, radiation therapists and medical physicists
- Promoting best practice standards in radiation oncology, including assisting the introduction of new treatment technologies
- The dosimetry service aims to implement Level III audits. Level III dosimetry measures the entire treatment chain, spanning the whole planning and treatment process.
- All these measures are designed to ensure radiation safety to the patient



•Put as much resource and effort into implementation as into production

Maintain communication with stakeholders about its implementation

•Develop evidence-based strategies to monitor the outcome