



# Area 7: Planned Exposure Situations - Medical Highlights of this Weeks Sessions Justification

- Awareness & concern regarding the radiation risks associated with expanding use of CT technology is growing.
- Radiologists are becoming engaged with the issue of justification
- Patients and their representatives are becoming more aware and interested in radiation safety issues, particularly in paediatric CT





## Area 7: Planned Exposure Situations: Medical Highlights of this Weeks Sessions Clinical Audits

- The development & use of radiation safety audits & patient dosimetry programmes within hospital is expanding.
- The development of clinical audit programmes is a key part of promoting radiation safety (eg IAEA clinical audit manuals)
  - Radiotherapy
  - Nuclear medicine
  - Diagnostic radiology
- Diagnostic reference levels have now been developed in many countries





## Area 7: Planned Exposure Situations - Medical Implications Of New Technology

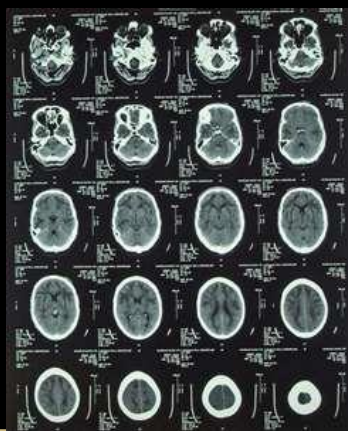
- Development of new therapeutic and diagnostic techniques has put demands on both dosimetry methods and optimisation strategies.
- Understanding the epidemiological implications of new radiotherapy techniques in children
- Assessing the patient dosimetry implications of new radionuclide treatments





## Area 7: Planned Exposure Situations - Medical Implications Of New Technology

- Dosimetry studies to evaluate doses in paediatric interventional radiology.
- The extension of the role of CT in to interventional radiology
- Assessing the patient dosimetry implications of new radiology procedures
- Assessing the occupational dose implications of new techniques





## Area 7: Planned Exposure Situations: Medical Magnitude Of Medical Exposures

- Continuing epidemiology studies to assess risks from diagnostic X-ray procedures
- Maintaining a robust system of justification for medical irradiation, particularly regarding paediatric radiology, CT and screening programmes
- Sharing & learning from experiences of errors & accidents particularly within radiotherapy and the use of high activity sources
- Ensuring that dosimetry methods and optimisation strategies keep pace with rapid developments in technology
- Ensuring effective communication with stakeholders, particularly patients & equipment manufacturers

