



## Area 7: Planned Exposure Situations - Medical Current And Future Developments

- Radiation protection relies on justification and optimisation. Dose limits do not apply to medical exposures
- The main issues are that justification is not rigorous and optimisation is poorly understood
- The public understand the benefits of medical exposures but not the risks





## Area 7: Planned Exposure Situations - Medical Current And Future Developments

- Awareness & concern regarding the radiation risks associated with expanding use of CT technology is growing.
- Particular concerns about risks and benefits in paediatric radiology
- 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 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 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





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

- Impact of changing the dose limits on clinical staff and in particular eye doses in interventional radiology
- Changing the recipe for effective dose causes communication issues for clinical staff
- Assessing the occupational dose implications of new techniques
- Radiation protection training for clinical staff to support the introduction of new technology

