

Session 3

Quality and Safety: Improving medical practice

Introductory remarks

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Quality and safety challenges associated with diagnostic and interventional radiology

Outline

- Challenge of improving integration of radiation protection into the clinical setting
- 2. Challenge of outdated imaging equipment
- 3. Challenge of BSS Directive implementation
- 4. ESR's EuroSafe Imaging alliance & campaign
- 5. How & where the EC can help





1. Challenge of improving integration of radiation protection into the clinical setting

- Medical aspects are driven by regulatory measures/competent authorities
- Disconnected from health authorities and education authorities
- Limited involvement of radiologists
- Focus on medical physics and technical aspects
- Change the paradigm: move from a regulatory approach to clinical science with a better integration of radiation protection into the medical training and into medical practices





Radiation protection **is** a clinical science

- Benefit Risk = clinically driven, particularly in interventional procedures and in paediatric imaging
- Justification step is crucial and is in essence clinically based
- The clinical indication drives the protocol
- Dose reporting in the report is a clinical duty
- Modern tools for dose recording provide insights into the daily clinical practice
- Need to develop team approach and to increase availability of medical physicists in radiology departments





2. Challenge of outdated imaging equipment

- Optimisation is mostly based on quality of equipment
- However, policy for equipment performance and quality of equipment is missing in Europe
- Need to develop safety management tools
- Need to develop a European plan in association with imaging industry
- Buy-in of healthcare funders is needed





3. Challenge of implementing the European BSS Directive

- European BSS Directive brought about new requirements for medical radiation protection → important to raise awareness among health professionals and support to achieve regulatory compliance to improve patient and occupational safety
- Need for specific policies for the adoption of justification tools
 - o e.g. Clinical Decision Support (CDS) tools
- Automatic dose recording should become a mandatory default feature of any new equipment





4. ESR's EuroSafe Imaging campaign & alliance

- ESR's quality and safety campaign for medical imaging, following an inclusive, multi-stakeholder approach
 - Radiologists Radiographers Medical physicists ...
 - Close interaction with: EC, HERCA, IAEA, WHO, ICRP, industry
- Increases health professionals' awareness of radiation protection
- Provides tools to support its members in implementing regulatory requirements (BSS)
 - ESR iGuide ESR Imaging Referral Guidelines
 - Clinical audit
 - Clinical DRLs
 - CT dose repository

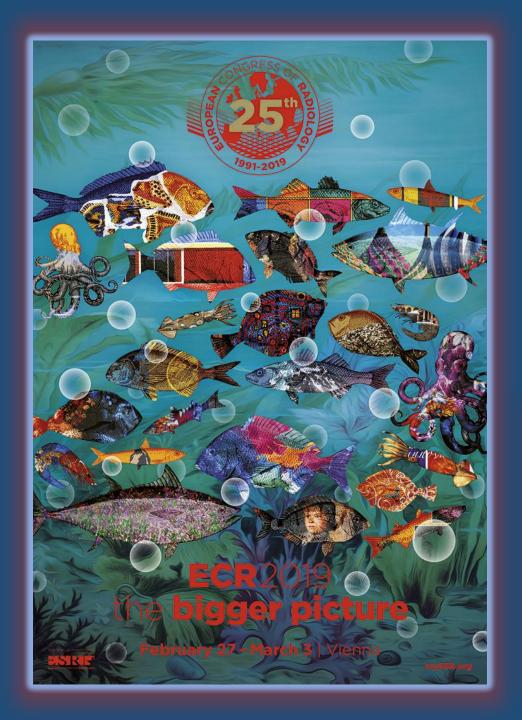






5. How & where the EC can help

- Support a holistic, multi-stakeholder approach towards medical quality and safety
- Integrate medical radiation protection into a broader concept of good practice in healthcare
- Close the gap between regulators and health policy makers
- Make the concept of quality and safety and related cost an integral part of national healthcare plans
- Bring the justification and optimisation process closer to the healthcare providers
- Develop a European policy for equipment update/quality
- Launch a focused campaign for radiation protection of paediatric patients (currently lacking in Europe)



THANK YOU

