

Implications of Medical Low **Dose Radiation Exposure**



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> **Recommendations to enhance** effective radiation protection of patients and medical professionals, and to identify further research priorities

>> CONSOLIDATION OF PATIENT DATA REPOSITORIES ACROSS EUROPE



Develop an interconnected and sustainable system of image and dose repositories at the European level

Harmonise GDPR implementation in medical radiation protection research

Enhance awareness regarding radioation protection research among public and patients

OPTIMISATION OF RADIATION-BASED PROTOCOLS FOR MEDICAL DIAGNOSTICS OR THERAPY

Develop robust tools for optimisation of CT scanning and multimodality imaging



Develop dosimetry-based protocols for molecular radiotherapy across Europe

Deploy a EU-wide strategy to better predict and reduce secondary cardiovascular risks in breast cancer patients treated with radiotherapy

Actively promote good practices aimed at reducing cardiovascular risks after breast radiotherapy

Accelerate the generalised use in clinical practice of modelled total delivered doses to individual patients within Europe

➢ FURTHER OPTIMISATION OF RADIATION PROTECTION FOR PATIENTS AND MEDICAL WORKERS

Optimise systems for quantitative imaging irrespective of camera make or model

Encourage harmonisation of practices through active engagement of health professionals, researchers, health authorities and patients

Optimise the use of protective equipment to improve radiation protection of medical workers in interventional settings

➢ FUTURE RESEARCH ON MEDICAL RADIATION PROTECTION IN EUROPE

Conduct further research into adverse effects of ionising radiation on healthy tissues

Promote a EU-wide research strategy to use AI for optimising protection in radiation oncology

Develop biologically-based models to evaluate radiation-induced disease risk

Conduct large-scale clinical epidemiological follow-up of patients to assess late health effects of radiation



Investigate new and optimise existing medical imaging procedures to improve benefit/risk ratios and personalised approaches

For more information: www.medirad-project.eu