

IONISING RADIATION MEDICAL EXPOSURES (IRMER) 2017

Dates: 17th April and 27th November 2019

ABOUT THE COURSE:

The main regulations governing the use of ionising radiations in radiological imaging have recently undergone a major revision. The new Ionising Radiation (Medical Exposure) Regulations 2017 (IRMER17) state that “no practitioner or operator shall carry out a medical exposure or any practical aspect without having been adequately trained” (Reg 17). Adequate training is defined as that which satisfies the syllabus set out in Schedule 3 of IRMER17. The new Ionising Radiations Regulations 2017 (IRR17) include revised dose limits to radiation workers and the need for radiation employers to co-operate about the exposure of their staff.

This one-day course is designed to meet the theoretical training requirements of IRMER17 Schedule 3 and also covers the essential regulations of IRR17. The course cannot provide the equipment- and technique-focussed practical training that Schedule 3 also refers to which must be provided by the employer. A certificate of theoretical training is provided.

The course is designed for clinical staff who have been identified by their employer as a practitioner (those who justify exposures) and/or an operator (those who carry out any practical aspects). The course is specifically for those who are involved in diagnostic X-ray exposures such as cardiologists, endoscopists, anaesthetists and surgeons. This course is **not** designed for nurses or other extended-scope health professionals. *More suitable courses would be RPC's half day course on Radiation Protection for Non-medically Qualified Referrers course or the full day Radiation Protection for Health Professionals. Please contact RPC for further details.*

Course Fee: £150.00

There is a reduced fee of £50 for staff who are solely employed by St George's University Hospitals NHS Foundation Trust

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| <p>ICRP and the Need for Training (IRMER17 Reg 12 & 17) IRMER17 and ICRP statements on training of practitioners and operators, training records and CQC requirements</p> |
| <p>Biological Effects of Radiation Ionising radiation, interactions in human tissue, DNA damage, stochastic & deterministic effects, epidemiological studies, derivation of factors</p> |
| <p>Basic Physics and Principles of Imaging History of imaging, basic physics, radiation units, x-ray production, principles of imaging, imaging modalities</p> |
| <p>Radiation Exposure and Putting Risk into Context Background radiation, natural and artificial sources, risks from diagnostic radiological exams, contextualising risk, beneficial effects of radiation</p> |
| <p>Radiation Effects on the Fetus Stochastic & deterministic effects on the fetus, risks to fetus from different exams, RCR guidance, pregnancy rule</p> |
| <p>Regulations 1: Ionising Radiation (Medical Exposures) Regulations 2017 (IRMER17) Summary of key regulations: protection of patient, licencing of radioactive substances, referrers, practitioners, operators, justification, optimisation, expert advice, imaging equipment, training, dealing with incidents</p> |
| <p>Regulations 2: Ionising Radiations Regulations 2017 (IRR17) Summary of key regulations: risk assessment, Restriction of exposure, dose limits, classified workers, controlled areas, local rules, RPS, RPA, Co-operation between employers, dealing with incidents</p> |
| <p>Employer's Procedures Summary of employer's procedures required risk under Schedule 2 of IRMER17</p> |
| <p>Occupational Doses and Protection for Staff Occupational doses, personal dose monitoring, protection for staff, scatter doses, dose limits, investigation levels, HSE investigations</p> |
| <p>Radiation Equipment: Duties of the Employer (IRMER Reg 15 & 16) Equipment Lifecycle, installation & critical examination, commissioning, equipment Inventory, QA</p> |
| <p>Patient Dosimetry and DRLs (IRMER Reg 12 (3b,c)) National dose surveys, diagnostic reference levels, local dose audit, taking action on high doses</p> |
| <p>Optimisation (IRMER Reg 12) IRMER17 Reg 12, definition of optimisation, ALARP, protocols, exposure charts, examinations requiring special attention, pregnant or breast feeding patients</p> |