

CONTROLLED DOCUMENT

Ionising Radiation (Medical Exposure) Regulations 2017

Procedure 2: Identification of Duty Holders under IR(ME)R 2017

Required under IR(ME)R 2017 Regulation 6 & 10 & Schedule 2 (b)

CATEGORY:	Procedure
CLASSIFICATION:	Health & Safety, Clinical Governance
PURPOSE:	To identify individuals entitled to act as referrer or practitioner or operator within a specified scope of practice.
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Essential Reading for:	Staff who are designated as an IR(ME)R duty holder, defined as referrer, practitioner and/or operator.
	Staff in training to become an IR(ME)R duty holder
	Managers of IR(ME)R duty holders
	General managers of departments and

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	areas that refer for or perform procedures involving ionising radiation
Information for:	All staff working in departments that refer for or perform procedures involving ionising radiation.

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1. Procedure Statement

1.1 To clearly identify who is entitled by University Hospitals Birmingham NHS Foundation Trust to act as a referrer, practitioner and operator within the definition of the Ionising Radiation (Medical Exposure) Regulations 2017.

2. Scope

- 2.1 All medical exposures and non-medical imaging exposures carried out by the Trust
- 2.2 Specific restrictions related to referrers and practitioners for non-medical imaging are covered in IR(ME)R Employer's Procedure 3.
- 2.3 Specific restrictions and arrangements relating to exposures for medical and biomedical research are covered in IR(ME)R Employer's Procedure 8.
- 2.4 Specific arrangements relating to exposures of carers and comforters are covered in IR(ME)R Employer's Procedure 14.
- 2.5 Specific protocols relating to the Breast Screening Imaging Unit:
 - Breast Screening Unit (BSU) GP Referral Protocol
 - BSU Referral Protocol
 - Symptomatic Imaging Follow-Up Patients Protocol

3. Responsibility

- 3.1 The Trust is responsible for establishing who can act as referrer, practitioner, and operator.
- 3.2 The responsibility for advising the relevant personnel of their entitlement and duties to act as practitioner or operator within a specified scope of practice is delegated to:
 - Clinical Service Leads Imaging, Medical Physics and Radiotherapy
 - Lead Radiologist for Breast Imaging Services
 - The Principal Investigator for Wellcome Trust Birmingham Clinical Research Facility WTCRF (for research trials approved within the Trust)
- 3.3 They are also responsible for issuing information on the relevant referral criteria that have been adopted. These are based on the Royal College of Radiologists iRefer. The aim is to promote the best use of imaging/exposure for the benefit of patients.
- Practitioners and operators must read the IR(ME)R Employer's Procedures annually and when they are updated.
- 3.5 Referrers must have refresher training once every three years. Their scope of practice should be checked as part of the annual appraisal.
- The qualifications and registration, where applicable, of duty holders must be checked on commencement of employment and when promoted into a new role. Registration must be checked to ensure the duty holder has renewed their registration following the end of a previous registration period. Verification of this is the responsibility of the Trust HR department.

4. Practice

Referrers

- 4.1 A Registered healthcare professional who is a member of a profession regulated by a body mentioned in section 25(3) of the National Health Service Reform and Health Care Professions Act 2002(4) whom is entitled in accordance with this procedure to refer individuals for medical exposure to a practitioner.
- 4.2 Physicians' associates cannot be entitled as referrers under IR(ME)R 2017 as they are not currently registered healthcare professionals.
- 4.3 University Hospitals Birmingham NHS Foundation Trust entitles the personnel given in Table 1 (Appendix 1) to act as referrers within the scope specified.
- 4.4 As registered healthcare professionals, referrers are responsible for ensuring that they are aware of the latest nationally accepted referral criteria.
- 4.5 The Trust has adopted criteria for the justification and authorisation of referrals.
- 4.6 The process that qualified, non-medical Healthcare Professionals need to follow to become approved Non-Medical Referrers (NMRs) and be able to refer patients for ionising radiation under an agreed scope of practice is defined in CD1224; Standard Operating Procedure for Imaging Referrals by Non-Medical Practitioners which is held in the Trust management system.

Duties and Responsibilities of the Referrer

- 4.7 At the time of referral for diagnostic examinations, the referrer should obtain verbal consent from the individual to be exposed to ionising radiation and, as appropriate, discuss any associated risks. Arrangements for providing, where practical, adequate information relating to the benefits and risks associated with the exposure (prior to the exposure taking place) are given in IR(ME)R Employer's Procedure 12. If the referrer is unsure about the nature and risks of the procedure/ examination then they should discuss and clarify these risks with a suitably trained healthcare professional in the relevant department.
- 4.8 Full written informed consent is required for therapeutic procedures.
- 4.9 The referrer must supply the practitioner with sufficient medical data, such as results of previous diagnostic or imaging investigations or medical records, relevant to the medical exposure requested by the referrer to enable the practitioner to decide whether there is sufficient net benefit as required by Regulation 11(1) (b) to enable justification for the exposure to go ahead.
- 4.10 As a minimum requirement, the referrer must always:
 - Ensure the patient they are referring is the <u>correct</u> patient. This means double checking that the clinical details and examination required are correct for the name.
 - Provide sufficient information so that the individual can be uniquely identified in accordance with IR(ME)R Employer's Procedure 1.
 - Supply sufficient medical data and a clear clinical question to enable the examination to be justified for medical exposure including cases deemed a

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clinical emergency, i.e. clinical diagnosis, relevant past history, previous exposures relevant to the condition being investigated, clinical findings on the examination, relevant medication, known pregnancy status in line with IR(ME)R Employer's Procedure 4, breast feeding (for Nuclear Medicine procedures), any available histology, laboratory results e.g. INR, Creatinine and eGFR, whether the examination is for non-medical imaging or research purposes. For research trials, provide trial name and study time point.

- 4.11 If an electronic request is submitted the IT network individual's login credentials will act as a digital signature.
- 4.12 In the instance where a paper referral is used, the referrer must supply their own details, including a signature (plus clearly legible name, job title, professional registration number and contact details) uniquely identifying the referrer.
- 4.13 The referrer must ensure duplicate requests are not entered.

NB. The person requesting the examination MUST be the referrer taking responsibility for the examination or treatment requested. Failure to adequately complete an exposure request as defined above will result in a delay to the request being processed or ultimately being rejected.

- 4.14 Where a discussion has taken place between a healthcare professional and the practitioner resulting in the acceptance of a patient for a procedure involving exposure, the IR(ME)R practitioner will be acting as the referrer.
- 4.15 It is referrer's legal responsibility to ensure that The Society & College of Radiographers 'Referral Pause & Check' is carried out BEFORE a referral is submitted

Amending, Cancelling / Recalling a Referral

4.16 Should a referral need to be amended, cancelled / recalled, the Imaging, Nuclear Medicine or Radiotherapy department as appropriate must be contacted directly and a senior member of staff in the relevant modality spoken to immediately. Electronic requests cannot be cancelled using the electronic referral system.

Practitioners

4.17 A registered health care professional who is entitled in accordance with this procedure to take responsibility for an individual medical exposure.

Duties and Responsibilities of the practitioner

- 4.18 University Hospitals Birmingham NHS Foundation Trust entitles the personnel given in Table 2 (Appendix 2) to act as practitioners within the scope specified.
- 4.19 The practitioner is responsible for the justification and authorisation of a medical exposure and, to the extent of their involvement, keeping the dose to the patient as

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low as reasonable practicable consistent with the intended purpose. This includes the responsibility for the justification of foetal exposure where appropriate, with the exception of the Advance Trauma Life Support (ATLS) Protocols; when this situation occurs a practitioner must document the justification.

- 4.20 IR(ME)R Employer's Procedure 4 provides more information on the exposure of potentially pregnant individuals
- 4.21 Any practitioner who justifies and authorises a medical exposure must use the Vetting Module on the relevant electronic record system thus creating an electronic audit trail.
- 4.22 If a protocol/ examination is amended prior to the examination taking place, the amending practitioner must document the changes within the Vetting module or event comments on the relevant electronic record system.
- 4.23 For "fast track" breast imaging, changes may be documented on the fast track request form and subsequently signed clearly identifying the practitioner.

Authorisation

- 4.24 Authorisation is the process of recording that justification has taken place. It can be performed by the practitioner or by an operator under written guidance from a practitioner
- 4.25 A radiologist or IR(ME)R licence holder (ARSAC) may produce authorisation protocols to enable an operator to authorise specific exposures given specific referral criteria.
- 4.26 Administration of radioactive materials must be justified by a practitioner holding a relevant IR(ME)R licence (ARSAC)

Operators

- 4.27 An operator is any person who is entitled in accordance with this procedure, to carry out practical aspects of an exposure including the physical conduct of the exposure and any supporting aspects, identification of the individual to be exposed and authorisation.
- 4.28 Some of the practical aspects include:
 - Operating the imaging equipment
 - Patient identification
 - Checking pregnancy status
 - Clinical evaluation
 - Image manipulation and archive
 - Equipment QA tests
- 4.29 Lists of personnel who are have been entitled as Operators within the Trust are held within the relevant modalities Quality Management Systems.

Duties and Responsibilities of the operator

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- 4.30 University Hospitals Birmingham NHS Foundation Trust (UHB) entitles the personnel given in Table 3 (Appendix 3) to act as operators within the scope specified.
- 4.31 A person undergoing practical training e.g. a student radiographer/ trainee assistant practitioner may undertake certain operator duties whilst under the supervision of an appropriately trained operator, as defined by IR(ME)R schedule 3; however the trained operator retains responsibility and accountability for that exposure.
- 4.32 Should a practitioner verbally authorise an exposure, following a discussion with an operator e.g. by phone, with the practitioner off-site, the operator should, under their log-in, enter the practitioner's initials in the 'practitioner' box, along with an explanatory note.
- 4.33 As part of the examination, if additional projections/ examinations outside the standard authorisation protocols are required, the operator must seek advice from the practitioner. This must be documented by the authorising operator in the relevant electronic record system.
- 4.34 For symptomatic ("fast track") breast imaging, changes may be documented on the fast track request form and subsequently signed clearly identifying the practitioner.
- 4.35 It is an operator's responsibility to ensure that The Society & College of Radiographers 'Pause & Check' is carried out BEFORE an exposure is undertaken.
- 4.36 The Medical Physics Expert operator duties and responsibilities include:
 - Advise the employer on optimisation, specifically relating to equipment procurement, exposure protocols, patient dose reduction techniques and image processing.
 - Advise on a quality assurance programme for all equipment used for medical exposures. In practice the "physics level" quality assurance tests of imaging equipment are performed by a member of RRPPS staff, who might not themselves be a MPE
 - Calculate patient radiation doses when required for incidents and research ethics applications.
 - Assist with organisation of dose audits and the setting of diagnostic reference levels.
 - Advise on the suitability of local equipment for research exposures.

5. Contingencies

5.1 Any failure in compliance with this procedure must be reported to the relevant Divisional General Managers or Medical Physics Expert in their absence. Failure to comply with the above procedure may result in the Trust's Disciplinary Policy being invoked.

Category of Referrer	Qualifications	Scope of Referral
Medical/ Surgical Consultant or Senior Registrar	Professional Registration Appropriate Royal College Fellowship	All diagnostic and therapeutic exposures. Note: Radionuclide therapies must be referred to Nuclear Medicine via a consultant holding the relevant ARSAC therapy certificate/IR(ME)R licence (ARSAC).
Junior Doctor	Provisional Registration Medical degree	All diagnostic examinations
General Practitioners	Professional Registration Medical degree	All diagnostic examinations except interventional , Nuclear Medicine, PET and Radiotherapy procedures
General Dental Practitioners, Oral Surgeons and Orthodontists	Professional Registration Dental/ Medical Degree	All plain radiography of the head, jaw and chest x-rays for foreign bodies
Radiotherapy Clinical Oncologists	Professional registration FRCR Parts 1&2	ALL Radical and palliative External Beam treatments

Radiotherapy	Professional registration	Brachytherapy treatments
Clinical Oncologists	FRCR Parts 1&2	using sealed sources
	IR(ME)R licence holder (ARSAC) for specific	
	brachytherapy practice	
Radiotherapy	Professional registration	Radical and Palliative
Oncology Specialist	FRCR Part I and part II	External Beam
Registrars in Clinical	Working under consultant	Radiotherapy treatments
Oncology	supervision in line with	
	agreed competencies	
Radiotherapy	Professional registration	Palliative External Beam
Oncology Specialist	FRCR Part 1	Radiotherapy treatment
Registrars in Clinical	Working under consultant	Only
Oncology	supervision in line with	
	agreed competencies	
Breast Imaging Service	There is no requirement for a named referrer when an individual undergoes an exposure as part of a national screening programme following an invitation e.g. Breast	
	Screening Programme.	

Category of Practitioner	Qualifications	Scope of justification	
Radiology (including dental)			
Consultant Radiologists	Professional Registration FRCR (or DMRD)	All x-ray diagnostic examinations and interventional procedures	
Specialist Radiology Registrars	Professional Registration Completion of part 1 FRCR training programme (end of Year 1)	All x-ray diagnostic examinations	
Advanced Practitioner Radiographers	HCPC Registration BSc or DCR	As defined within the individual's scope of practice	
General Dental Practitioners, Oral Surgeons and Orthodontists	Professional Registration Dental/ Medical Degree	Intra-orals, panoramic dental and cone-beam CT dental examinations only.	
Consultant radiographers	HCPC Registration BSc or DCR	As defined in locally- approved protocols	
	<u>Cardiology</u>		
Consultant Cardiologists	Professional Registration MRCP + CCT	All x-ray cardiology procedures	
	Nuclear Medicine		
IR(ME)R Licence Holders (ARSAC)	Approved by ARSAC committee	As listed in ARSAC practitioner Licence or approval by ARSAC on a named patient (particular patient licence) basis, including examinations authorised by Clinical technologists and Clinical Scientists in Nuclear Medicine.	
Bone Mineral Densitometry (BMD)			
Clinical Scientist	Clinical scientist registration Relevant Master's Degree	BMD only	

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	or equivalent	
	Medical Degree	
Consultant Metabolic Bone	Professional Registration	BMD only
Specialist	Royal College Fellowship – specialising in metabolic	
	bone disease	
	DOTTO GIOCAGO	
	<u>Lithotripter Unit</u>	
Consultant Urologists	Professional Registration MD FRCS – Urology	Use of Lithotripter
	Maxillofacial Departments	
Maxillofacial Consultant/ Surgeon	Professional Registration	Intra oral, OPG, Cephalostat and cone
		beam CT x-ray equipment
<u> </u>	Fluoroscan Unit (mini-C-arm)	
Consultant Orthopaedic	Professional Registration	Use of Fluoroscan Units
Surgeons Consultant Podiatric	FRCS (Orthopaedics) FRCS (Plastic surgery)	
Surgeons	Post MRCS	
Registrars		
	<u>Research</u>	
Practitioners listed in this		Exposures within their
table		scope for clinical
		purposes
		Note: In Nuclear Medicine
		the procedures must be included in the
		practitioner's IR(ME)R
		licence for research in
	-Medical Imaging Examination	<u>ns</u>
See IR(ME)R employer's Procedure 3		
Radiotherapy		
Clinical Oncologists	Professional registration	ALL Radical and palliative
	FRCR Parts 1&2	External Beam
Oncology Specialist	Professional registration	treatments Radical and Palliative
Registrars in Clinical	FRCR Part I and part II	External Beam
Oncology	Working under consultant	Radiotherapy treatments
	supervision in line with	
1	agreed competencies	

Oncology Specialist	Professional registration	Palliative External Beam
Registrars in Clinical	FRCR Part 1	Radiotherapy treatment
Oncology	Working under consultant	Only
	supervision in line with	
	agreed competencies	

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Appendix 3 Table 3: Level of Qualifications for Operators

Category of Operator	Qualification requirements
Radiologist	Professional Registration
De die abermee eiet	FRCR (or DMRD)
Radiopharmacist	MRPharms
Radiopharmacy Technician	BTec or equivalent
Radiographer	BSc or DCR
Assistant Practitioner	Accredited Foundation Degree with relevant competency modules or equivalent
Assistant Practitioner (Breast Imaging Services)	NVQ3 (Mammography module)
Clinical Technologist	BTec /BSc Hons in Clinical Technology or equivalent
Clinical Scientist	Relevant Master's Degree or equivalent Medical Degree
Registered Nurse (Nuclear Medicine)	Relevant degree and specialist training
Registered Nurse (Advanced Clinical Practitioner / extended role)	Relevant degree and specialist training
Cardiologist	Professional Registration MRCP CCT
General Dental Practitioners, Oral Surgeons	Professional Registration
and Orthodontists	FRCS (Orthopaedics)
	FRCS (Plastic surgery)
	Post MRCS
	Dental/Medical Degree
Registered Dental Nurse	National Certificate in Dental Nursing
	Dental Radiography Certificate
Registered Dental Nurse (extended role)	National Certificate in Dental Nursing
	Dental Radiography Certificate
Registered Nurse (Advanced Clinical Practitioner / extended role) Cardiologist General Dental Practitioners, Oral Surgeons and Orthodontists Registered Dental Nurse	Relevant degree and specialist training Relevant degree and specialist training Professional Registration MRCP CCT Professional Registration FRCS (Orthopaedics) FRCS (Plastic surgery) Post MRCS Dental/Medical Degree National Certificate in Dental Nursing Dental Radiography Certificate National Certificate in Dental Nursing

Appendix 4 Table 4: Personnel Entitled to Act as Operators

Practical Aspects of Operator	Staff Groups	Additional training requirements in addition to qualifications (see Table 3)
	<u>XRAY</u>	
Performing all plain film radiography	All Radiographers	
Performing more complex examinations e.g. • Advanced Practice	Radiographers recorded as competent on central training records	In-house training Specialist equipment application training
(Fluoroscopy) • CT scanning		
Cardiac imaging		
Diagnostic imaging according to the Trust's 'Assistant Practitioner Scope of Practice'	Assistant Practitioners	In-house training Specialist equipment application training *Working under the supervision of a Registered Radiographer
Performing Interventional fluoroscopic and CT procedures	 Consultant Radiologist Senior Registrar, with a radiographer present. Indirect supervision from a Consultant Radiologist 	In-house training Specialist equipment application training
Standard Fluoroscopic procedures	Consultant RadiologistSenior RegistrarAdvanced Practitioner Radiographers	In-house training Specialist equipment application training
All cardiology procedures	 Consultant Cardiologists Associate Specialist or Fellow in Cardiology Cardiothoracic Surgeons 	Specialised IR(ME)R training: BIR e-LfH IR(ME)R Cardiology On-line training – All modules Specialist equipment application training
Fluoroscopy using a "mini c-arm"	Consultant Orthopaedic SurgeonsConsultant Podiatric	In-house training Specialist equipment application training

In-house QA on X-ray equipment (Level A tests) In-house QA (including testing before use and routine level B tests) Authorisation of imaging	Surgeons Registrars Radiographers Assistant Practitioners Clinical Scientists Clinical Technologists Radiographers	IR(ME)R training In-house training – Level A tests In-house training - QA Familiar with justification
exposures (when not carried out by practitioner)	Radiographers Registered dental nurse Redicine including PET-CT	criteria agreed by practitioner(s)
Preparation of radiopharmaceutical	Radiopharmacist Radiopharmacy Technologist Clinical Technologist Radiographer Clinical Scientist Pre-Registration Scientist e.g. Trainee Pharmacist Registered Nurse	In-house training - Preparation of radiopharmaceutical
Dispensing of radiopharmaceutical	Clinician Clinical Scientist Clinical Technologist Radiographer Registered Nurse Radiopharmacist Radiopharmacy Technologist Pre-Registration Scientist e.g. Trainee Pharmacist	In-house training - Dispensing of radiopharmaceutical
Equipment QA	Clinical Scientist Pre-Registration Scientist Clinical Technologist Radiopharmacy Technologist Radiographer Assistant Practitioner Pharmacist Assistant Technical Officer	In-house training - Equipment QA
Admin. of radiopharmaceutical • Diagnostic	Clinician Clinical Technologist Clinical Scientist Registered Nurse	In-house training: Phlebotomy course Supervised IV training Admin. of

	Radiographer	radiopharmaceutical - diagnostic
		Approved in writing by IR(ME)R licence (ARSAC) holder for diagnostics
Admin. of radiopharmaceutical	Clinician	In-house training - Admin. of
Therapy	Clinical Technologist	radiopharmaceutical -
	Clinical Scientist	Therapy
	Radiopharmacy Technologist	
	Registered Nurse	Approved in writing by IR(ME)R licence (ARSAC) holder for therapies.
Deticat Dans antica 0	ID/ME\D E	In house training Deticat
Patient Preparation & counselling	IR(ME)R licence holder (ARSAC)	In-house training - Patient Preparation & counselling
	Other clinicians (e.g. registrars, SPR)	
	Clinical Technologist	
	Radiographer	
	Registered Nurse	
	Trainee Clinical Technologist	
	Clinical Scientist	
	Pre-registration scientist	
	Radiopharmacist	
	Nuclear medicine receptionists	
	Assistant Practitioner	
	Assistant Technical Officer	
	Imaging Department Assistant	
Performing PET/ CT Scan	Clinical Technologist	In-house training -
Imaging	Radiographer	Performing PET/ CT Scan
	Clinical Scientist	Imaging
Performing Nuclear Medicine	Clinical Technologist	In-house training -
imaging	Clinical Scientist	Performing Nuclear
	Radiographer	Medicine Imaging
	Assistant Practitioner	
	Trainee Clinical Technologist	
Perform CT acquisition for cardiac	Clinical technologist	In-house training
calcium scoring (as part of	Clinical scientist	
combined MPI study), SPECT/CT hybrid imaging, attenuation correction	Radiographer	

Authorisation of CT exposures for SPECT /CT hybrid imaging when authorisation is not carried out by a nuclear medicine IR(ME)R practitioner	Clinical technologist Clinical scientist Radiographer	Authorisers must be approved in writing by the nuclear medicine IR(ME)R practitioners Authorising under justification criteria agreed by the nuclear medicine IR(ME)R practitioners
Perform non-imaging diagnostic test	Clinical Technologist Trainee Clinical Technologist Clinical Scientist Pre-registration Scientist Radiographer Registered Nurse Clinicians Phlebotomists Assistant Practitioner Assistant Technical Officer Imaging Department Assistant	In-house training
Authorisation of exposures when not carried out by practitioner	Radiographers Clinical Technologists Clinical Scientist Consultant Radiologist Cardiologist	Authorisers must be approved in writing by the IR(ME)R licence holders (ARSAC) Authorising under justification criteria agreed by IR(ME)R licence holder(s) (ARSAC)
	BMD (Nuclear Medicine)	
BMD scanning	Clinical Technologist Radiographer Assistant Practitioner Clinical Scientist	In house training
BMD equipment QA BMD QA (including testing before	Clinical Technologist Radiographer Assistant Practitioner Clinical Scientist Clinical Scientists	In house training In-house training
Divide wit (including testing before		in nouse training

use and routine level B tests 1)	Clinical Technologists	
BMD Authorisation	Clinical Scientist Radiographer	In house training Familiar with justification criteria.
	Breast Imaging Services	
Performing all Mammographic exposures	Radiographers Assistant Practitioners	Certificate of Competence in Mammograms
	(mammography)	Diagnostic & Therapeutic support – mammography module
		In house training
In-house QA on X-ray equipment	Radiographers	As above
(Level A tests ¹)	Assistant Practitioners (mammography)	
QA (including testing before use	Clinical Technologists	In-house training
and routine level B tests)	Clinical Scientist	
Authorisation of exposures (when not carried out by practitioner)	Radiographers	Familiar with justification criteria agreed by practitioner(s)
Wello	ome trust clinical research facility	
Fluoroscopic procedures	Radiographer	In house training
Body composition scanning	Radiographer	In house training
Equipment QA	Clinical Technologists	In house training
	Clinical Scientist	
	Radiographer	
Authorisation of exposures (when not carried out by practitioner)	Radiographer	Familiar with justification criteria agreed by practitioner(s)
	Maxillofacial Departments	
Operation of Intra oral, OPG and Cephalostat x-ray equipment	General Dental Practitioners, Oral Surgeons and Orthodontists	Specific IR(ME)R and radiology training
	Registered Dental Nurses	

	Dental Surgery Assistant (DSA) (extended role)	Additional Dental Radiography Course for DSA's
Operation of Cone Beam CT	Maxillofacial Consultant/Surgeon Dental Surgery Assistant (DSA) (extended role)	Additional Dental Radiography Course for DSA's and completion of UHB protocol.
Equipment QA	Dental Surgery Assistant (DSA)(extended role)	Additional Dental Radiography Course for DSA's
<u>Urology</u>		
Operation of Lithotripter Unit (As listed within Lithotripter Unit)	Consultant Urologists	In house competency on use of equipment
QA (including testing before use and routine level B tests)	Clinical Scientists Clinical Technologists	In-house training
Mini C-arm Theatres		
Operation of Fluoroscan Unit	Consultant Orthopaedic Surgeons Consultant Podiatric Surgeons Registrars – post MRCS	Fluoroscan Training Course Applications training on use of equipment In – house training *Evidence of training on the use of the same equipment in other Trusts will be accepted
Equipment QA	Radiographers	In house training
QA (including testing before use and routine level B tests)	Clinical Scientists Clinical Technologists	In-house training
<u>Radiotherapy</u>		
Performing CT localisation Scans	Therapy Radiographers	In house training
Radiotherapy External Beam Treatment Delivery (including on	Therapy Radiographers	In house training

set imaging)		
HDR Brachytherapy Treatment Delivery	Therapy Radiographers	In house training
Pre-treatment functions including planning, checking and data entry to Mosaiq	Therapy Radiographers	In house training
External Beam Treatment	Clinical scientists	In-house training
Planning & checking	Clinical technologists	
	Therapy Radiographer / Dosimetrist	
HDR Brachytherapy; Treatment	Clinical scientists	In-house training
planning and QA.	Clinical technologists	
	Therapy Radiographer / Dosimetrist	
SRS (CK) Treatment Planning	Clinical scientists	In-house training
	Clinical technologists	
	Therapy Radiographer / Dosimetrist	
CT scanner QA	Clinical scientists	In-house training
	Therapy Radiographer / Dosimetrist	
Machine and accessory QA	Clinical scientists	In-house training
(includes commissioning)	Clinical technologists	
	Linac Engineer	
	Therapy Radiographer / Dosimetrist	
Treatment and imaging	Clinical scientist	In-house training
equipment QA	Clinical Technologist	
	Linac Engineer	
	Therapy Radiographer/Dosimetrist	
PPM and corrective maintenance	Linac Engineers	Manufacturer training
on treatment machines	Clinical Scientist	courses
M HD		In-house training
Mould Room pre-treatment manufacture of patient	Clinical Technologist	In-house training
immobilisation, shielding and set- up devices	Dosimetrist	
CCIS, Software support and	Clinical scientist	In-house training
software development and implementation	Clinical Technologist	
Medical Physics Expert	Clinical Scientists	Recognised by the

Department of Health and Social Care and listed on
the national register