## **Nuclear Medicine ARCP Decision Aid 2021**

This decision aid provides guidance on the requirement to be achieved for a satisfactory ARCP outcome at the end of each training year. The knowledge and workplace based assessment required for Clinical Radiology are set out in the curriculum and decision aid available on the Royal College of Radiologists website <u>www.rcr.org.uk</u>. Nuclear Medicine trainees will need to meet the requirements for both specialties in the dual CCT programme.

Evidence / requirement	Notes	Year 1 – Year 3 (ST3-ST5)	Year 4 (ST6)	Year 5 (ST7)	Year 6 (ST8)
		Evidence recorded in Radiology eportfolio	Evidence recorded in JRCPTB eportfolio	Evidence recorded in JRCPTB eportfolio	Evidence recorded in JRCPTB eportfolio
Educational supervisor (ES) report	There should be an ES report for both Clinical radiology and Nuclear Medicine in each training year	Confirms meeting or exceeding expectations and no concerns	Confirms meeting or exceeding expectations and no concerns	Confirms meeting or exceeding expectations and no concerns	Confirms will meet all requirements needed to complete training
Generic capabilities in practice (CiPs)	Trainees should record self-rating to facilitate discussion with ES. ES to record rating for each CiP	ES to confirm trainee meets expectations for level of training as set out in the Clinical Radiology curriculum	ES to confirm trainee meets expectations for level of training	ES to confirm trainee meets expectations for level of training	ES to confirm trainee meets expectations for level of training
Specialty capabilities in practice (CiPs)	Trainee should complete self- rating to facilitate discussion with ES. ES report will confirm entrustment level for each CiP	ES to confirm trainee is performing at or above the level expected for all CiPs as set out in the Clinical Radiology curriculum	ES to confirm trainee is performing at or above the level expected for all CiPs as set out in grid below	ES to confirm trainee is performing at or above the level expected for all CiPs as set out in grid below	ES to confirm level 4 in all CiPs by end of training
Multiple consultant report (MCR)			2	2	2





Evidence / requirement			Year 4 (ST6) Evidence recorded in JRCPTB eportfolio	Year 5 (ST7) Evidence recorded in JRCPTB eportfolio	Year 6 (ST8) Evidence recorded in JRCPTB eportfolio	
	complete an MCR for their own trainee					
Multi-source feedback (MSF)	An indicative minimum of 12 raters including 3 consultants and a mixture of other staff (medical and non-medical). MSF report must be released by the ES and feedback discussed with the trainee before the ARCP. If significant concerns are raised then arrangements should be made for a repeat MSF	1	1	1	1	
Case-based discussion (CbD) and mini-clinical evaluation exercise (mini- CEX)	Indicative minimum number to be carried out by consultants. Trainees are encouraged to undertake more and supervisors may require more if concerns are identified. Assessments should be undertaken throughout the training year. Structured feedback should be given to aid the trainee's personal development and reflected on by the trainee	As per Clinical Radiology ARCP decision aid	4 CbD and 1 mini-CEX	4 CbD and 1 mini-CEX	4 CbD and 1 mini-CEX	





Evidence / requirement	Notes	Year 1 – Year 3 (ST3-ST5)	Year 4 (ST6)	Year 5 (ST7)	Year 6 (ST8)
		Evidence recorded in Radiology eportfolio	Evidence recorded in JRCPTB eportfolio	Evidence recorded in JRCPTB eportfolio	Evidence recorded in JRCPTB eportfolio
Mini-imaging interpretation exercise (Mini-IPX)	Indicative minimum number by a range of assessors including at least one of consultant level in each 4-6 months. Structured feedback should be given to aid the trainee's personal development and reflected on by the trainee	As per Clinical Radiology ARCP decision aid	4	8	8
Radiology- direct/direct observation of procedural skills (Rad-DOPS/DOPS)	Indicative number	As per Clinical Radiology ARCP decision aid	2 DOPS	1 DOPS	1 DOPS
Quality improvement (QI) project	Project to be assessed with quality improvement project tool (QIPAT)	As per Clinical Radiology ARCP decision aid		Design and undertake 1 quality improvement project (which may include audit) with presentation at a local audit meeting	Design and undertake 1 quality improvement project (which may include audit) with presentation at a local audit meeting
Patient survey		As per Clinical Radiology ARCP decision aid	1		1
Teaching observation	Indicative number	As per Clinical Radiology ARCP decision aid		1	





Evidence / requirement	Notes	Year 1 – Year 3 (ST3-ST5) Evidence recorded in Radiology eportfolio	Year 4 (ST6) Evidence recorded in JRCPTB eportfolio	Year 5 (ST7) Evidence recorded in JRCPTB eportfolio	Year 6 (ST8) Evidence recorded in JRCPTB eportfolio
Examination		FRCR 1 & 2a passed	FRCR 2b passed		Post Graduate Diploma in Nuclear Medicine passed
Advanced life support (ALS)		Valid	Valid		Valid

## **Clinical scenarios and interventions**

The table below details clinical scenarios which Nuclear Medicine interventions commonly contribute to. The numbers provided are indicative and are intended to help guide the levels of training typically required to achieve competence.

System	Type of scan	Examples of common indications	Indicative numbers
Oncological Nuclear Medicine	Whole body PET-CT, SUV quantification	PET-CT staging of tumours, primarily 18F-FDG but to also include experience in other tracers such as PSMA, choline, somatostatin analogues	800
	Whole body single photon, SPECT,     Staging of bone metastatic disease       SPECT-CT     SPECT-CT		700
			50
Cardiovascular Nuclear Medicine			500







System	Type of scan	Examples of common indications	Indicative numbers	
Musculoskeletal Nuclear	Dynamic, planar, whole body, SPECT,	Bone scans for musculoskeletal problems, white cell scan for infection	130	
Medicine	SPECT-CT bone scans			
Pulmonary Nuclear	Planar, SPECT, SPECT-CT, possibly with	Lung scans for pulmonary embolism evaluation, lobar quantification, shunt	140	
Medicine	quantification	evaluation		
Renal Nuclear Medicine	Dynamic, static, with quantification	Dynamic for renal function, drainage and micturating cystogram	140	
		Static for renal function and parenchymal evaluation		
Neurological Nuclear	SPECT, PET	Dementia, epilepsy, movement disorders etc.	250	
Medicine				
<b>Gastrointestinal Nuclear</b>	Dynamic, static, possibly quantification	GI bleed, ectopic gastric mucosa, transit, biliary, liver & spleen parenchyma	60	
Medicine		studies		
Endocrine Nuclear	Static, SPECT, SPECT-CT, possibly	Thyroid, parathyroid, adrenal pathologies	150	
Medicine	quantification			
Infection or	FDG PET-CT or single photon whole	Pyrexia of Unknown Origin, vasculitis, activity of inflammatory bowel disease	40	
Inflammatory	body labelled white cell scan			
Nuclear Medicine				
Miscellaneous		e.g. Lymphoscintigraphy for oedema dacroscintigraphy for epiphora	30	

Nuclear Medicine Therapies	Examples of organ systems	Examples of common indications	Indicative numbers
Benign			50
		Non-toxic goitre	
	Joint	Synovitis	
Malignant	Ialignant         Bone         Metastasis		30
	ThyroidPrimary lesion ±metastasesNeuroendocrinePrimary lesion ±metastases		20
			10
	Liver	Liver metastases (SIRT)	5







Nuclear Medicine         Examples of organ systems           Therapies         Image: State of the system state of the		Examples of organ systems	Examples of common indications	Indicative numbers
	Nuclear Medicine quantification without	GFR, red cell mass, platelet non imaging studies, GFR, SeHCAT etc	N/A	50
	imaging			

## Levels to be achieved by the end of each training year and at critical progression points for Nuclear Medicine specialty CiPs

Level 1: Entrusted to observe only – no clinical care; Level 2: Entrusted to act with direct supervision; Level 3: Entrusted to act with indirect supervision; Level 4: Entrusted to act unsupervised

Specialty CiP	ST3	ST4	ST5		ST6	ST7	ST8	
1. Advising and authorising appropriate Nuclear Medicine diagnostic and therapeutic interventions for individual patients	2	2	2	OINT	3	3	4	OINT
2. Ability to direct optimisation of diagnostic Nuclear Medicine image quality in terms of patient preparation, image acquisition, post processing and display	2	2	2	ION P	3	4	4	ION P
<ol> <li>Providing timely, accurate and clinically pertinent reports on all Nuclear Medicine diagnostic studies</li> </ol>	2	2	2	ROGRESS	3	3	4	ROGRESS
4. Providing a safe and comprehensive radionuclide therapy service	2	2	2	CAL PI	2	3	4	CAL PI
<ol> <li>Leading all the clinical aspects of the Nuclear Medicine department in terms of compliance with regulations</li> </ol>	2	2	2	CRITI	2	3	4	CRITI



