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Multi-professional Educational Templates for
Myocardial Perfusion Imaging (MPI)
from
Nuclear Medicine Education Committee Sub-group of BNMS Education

The aim was to establish the syllabus and evidence required to achieve an adequate level of knowledge in the selected topic area of Myocardial Perfusion Imaging (MPI)

This template is part of an article that was published in Nuclear Medicine Communications and is the work of the Education sub-group of the Professional Standards & Education committee of BNMS:
The following have all contributed to the successful creation of the templates. Almost no-one has been present for all the meetings over the past 6 years. Rather many have added their knowledge and experience at the appropriate time.

James Bailey; Cedric Eustance; Mo Gardner; Isky Gordon; Peter Hogg; Ian Jones; Andrew Kelion; Mark Harbinson; Brian Hutton; Kate Latus; Michelle Logan; Paul Marsden; Julie Martin; Danny Mccool; Ken A Miles; James Reid; Jillian Riley; Christine Segasby; Christine Taylor; Paula Todd; Ann Tweddel; Richard Underwood; Wendy Waddington; Simon Woldman.

Myocardial Perfusion Imaging

This template covers both the stressing of the patients as well as acquiring the images.

This is a multi-professional educational tool, so no clear separation between different professional groups has been made, rather it is hoped that an expanded job responsibility for any one individual may be the outcome of this educational template.

Not all the staff need to have all the competencies, rather all the competencies need to be covered by one of the members of staff involved in the examination. However, the member of staff who undertakes a task must have acquired the competency required for that task.

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For the stress test, it is the responsibility of the person in charge of the stress room who has the responsibility to ensure all competencies are covered.

Skills for Health - National Occupational Standards (NOS): The standards continue to be revised on an incremental basis, with new units being added or imported, removed or changed from time to time to ensure the standards remain as relevant as possible. There are available to download from www.skillsforhealth.org.uk

The AfC numbers refer to the healthcare science career pathway levels 1-9, these are work levels and are not related to AfC pay bands NOS PC - performance criteria. K&U- the knowledge and understanding relevant to each NOS (General, Basic, Detailed, Advanced). Work Level – Supervised; Unsupervised; Accountable								
Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
3 This is not specific to Cardiac Stress but rather anyone from many different backgrounds will come to cardiac with some experienc	CORE1(2) Core2 level 1 Core 2 level 2 Core 3 level 1 Core 3 level 2 Core 5 level 1 Core 5 level 2	NC5 a-c,e,i R3 a-c,h,i R11 a,c,e,h,j A5 all D5 all E1 a,g E1 a,g E2 a,h E3 all E4 a,b,d,f F17 a-c F19 except d G8 all G12 all I1 b,c,d	HSC233 Relate to, and interact with, individuals GEN22 Communicate effectively with individuals and others GEN25 Administer appointments GEN14 Provide advice and information to individuals on how to	No	NVQ 2	Unskilled assistant	<ul style="list-style-type: none"> • Basic Life Support • Manual Handling • Health & Safety • Basic radiation knowledge • Administration: <ul style="list-style-type: none"> ○ Registration of patients 	<ul style="list-style-type: none"> • Mandatory training certificate • Mandatory training certificate • Mandatory training certificate • Trainer's report of administration and communication skills • Trainers report of basic understanding of radiation principles

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence									
e.	Core 6 level 1 Core 6 level 2 IK1 CORE 1 IK1 CORE 2 HWB7 LEVEL 1	<table border="1"> <tr><td>I2 a-c</td></tr> <tr><td>I3 a,f,g,k,l,m</td></tr> <tr><td>I4 except c</td></tr> <tr><td>I5 a-c,g,h,l</td></tr> <tr><td>I6 all</td></tr> <tr><td>I10 a,d</td></tr> <tr><td>I11 all</td></tr> <tr><td>I15 all</td></tr> <tr><td>J7 a,b,f,g</td></tr> </table>	I2 a-c	I3 a,f,g,k,l,m	I4 except c	I5 a-c,g,h,l	I6 all	I10 a,d	I11 all	I15 all	J7 a,b,f,g	manage their own condition GEN5 Support individuals during and after clinical/therapeutic activities HSC242 Receive and pass on messages and information CfA104 Handle mail CfA204 Manage diary systems CfA105 Store and retrieve information HSC234 Ensure your own actions support				<ul style="list-style-type: none"> o Underst and booking system o Docume ntation o Know constituen t parts of the patient's file • Communicatio n <ul style="list-style-type: none"> o Read & write o Langua ge • Patient identification 	
I2 a-c																	
I3 a,f,g,k,l,m																	
I4 except c																	
I5 a-c,g,h,l																	
I6 all																	
I10 a,d																	
I11 all																	
I15 all																	
J7 a,b,f,g																	

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			the equality, diversity, rights and responsibilities of individuals HI 10 Capture, organise and disseminate information and knowledge EUSC02 Obtain supporting information to inform the assessment of an individual HSC3115 Receive, analyse, process, use and store information CHS177 Advise on access to and use of				<ul style="list-style-type: none"> • Use of telephone 	

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			services HSC42 Contribute to the development and maintenance of health and safety practices in the working environment GEN3 Maintain health and safety in a clinical/therapeutic environment HT4 Manage and organise your own time and activities HSC23 Develop your knowledge and practice					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			<p>EUSC91 Act within the limits of your competence and authority</p> <p>ENTO A Ensure your own actions reduce risks to health and safety</p> <p>CfA103 Welcome visitors</p> <p>HCS CARD 2 Prepare patient for cardiac procedure</p> <p>GEN4 Prepare individuals for clinical/therapeutic activities</p>					

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			position individuals					
4	CORE1(2) Core2 level 1 Core 2 level 2 Core 3 level 1 Core 3 level 2 Core 5 level 1 Core 5 level 2 Core 6 level 1 Core 6 level 2 IK1 CORE 1		HSC233 Relate to, and interact with, individuals GEN22 Communicate effectively with individuals and others GEN14 Provide advice and information to individuals on how to manage their own condition GEN5 Support individuals during and after clinical/therapeutic activities	no	NVQ 3	Supervised K&U level is Basic Skilled assistant	<ul style="list-style-type: none"> • Basic anatomy & physiology • Radiation safety <ul style="list-style-type: none"> ○ Overview of radiation ○ Radiation protection issues ○ Radiation monitoring • Observations <ul style="list-style-type: none"> ○ Pulse ○ BP, 	<ul style="list-style-type: none"> • NVQ anatomy & physiology • Local radiation training • Local certificate in understanding ECG's • Pass local cannulation/IV training • Pass assistant practical assessment plus written test (see enclosed doc)

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	IK1 CORE 2 HWB7 LEVEL 1 HWB6 LEVEL 1 HWB6 LEVEL 2 HWB8 LEVEL 1		HSC242 Receive and pass on messages and information HSC234 Ensure your own actions support the equality, diversity, rights and responsibilities of individuals HI 10 Capture, organise and disseminate information and knowledge EUSC02 Obtain supporting information to inform the assessment of an individual				<ul style="list-style-type: none"> ○ Basic ECG (12 Lead) • I.V. Cannulation <ul style="list-style-type: none"> ○ I.V. Training ○ Use of equipment ○ Record observations • Assist with patient preparation/handling • Stocking equipment 	

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			<p>EUSC51 Operate equipment required to support the intervention</p> <p>Or</p> <p>CHS112 Select imaging techniques/procedures for individual investigation</p> <p>HSC3115 Receive, analyse, process, use and store information</p> <p>CHS76 Obtain informed consent for interventions or investigations</p> <p>CHS6 Move and position individuals</p>					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			CHS177 Advise on access to and use of services HSC42 Contribute to the development and maintenance of health and safety practices in the working environment GEN3 Maintain health and safety in a clinical/therapeutic environment HT4 Manage and organise your own time and activities HSC23 Develop your knowledge and practice					

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			<p>EUSC91 Act within the limits of your competence and authority</p> <p>ENTO A Ensure your own actions reduce risks to health and safety</p> <p>CfA103 Welcome visitors</p> <p>HCS CARD 2 Prepare patient for cardiac procedure</p> <p>GEN4 Prepare individuals for clinical/therapeutic activities</p>					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			HCS Function D5 Comply with legal requirements for patient/client confidentiality M&L B8 Ensure compliance with legal, regulatory, ethical and social requirements FB11 Perform routine ECG procedures (HCS CARD4) CHS19 Undertake physiological measurements HCS A5 Handle and store					

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			Medical equipment and consumables within accepted and safe limits GEN13 Synthesise new knowledge into the development of your own practice EUSC68 Provide clinical care advice and information to individuals and others who are awaiting treatment or care HCS NC2 Prepare for imaging procedures GEN7 Monitor and manage the					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			environment and resources during and after clinical/therapeutic activities HCS RP20 Co-ordinate storage, disposal and transfer of radioactive substances HCS RP21 Collect, monitor and record radioactive waste CHS22 Perform Intravenous cannulation					
5	CORE1(3) Core2 level 3	CHS 19	HSC233 Relate to, and interact with, individuals in N03	Yes	BSc +	Basic stressor	<ul style="list-style-type: none"> All of the above plus 	<ul style="list-style-type: none"> Passed BSc with anatomy & physiology content

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	Core 3 level 1 Core 3 level 3 Core 4 level 2/3 Core 5 level 2 and/or 3 Core 6 level 1 Core 6 level 3 IK1 CORE 3 IK2 CORE 3 HWB7 LEVEL 1/2 HWB6 LEVEL 1	CHS 22 CHS 177 EC 17 (INTERMEDIATE) EUSC 91 GEN 4 GEN 5 GEN 6 GEN 12 GEN 13 GEN 22	M&L E6 Ensure health and safety requirements are met in your area of responsibility HCS RP13 Optimise practices involving radiation GEN22 Communicate effectively with individuals and others GEN14 Provide advice and information to individuals on how to manage their own condition		CPD	(requires direct supervision (in the room) from advanced stressor or above)	<ul style="list-style-type: none"> • BSc level of anatomy & physiology • ECG (12 Lead) <ul style="list-style-type: none"> ○ Know normal • I.V. Cannulation <ul style="list-style-type: none"> ○ I.V. Training ○ Basic drugs • Confirm adequacy of stress • Recognising normal/abnormal stress study 	<ul style="list-style-type: none"> • Pass local IV certificate • Pass relevant cardiac stress competencies as per BANCC or BCS documents • Pass practical assessment minus choice of test (see practical assessment doc) • Evidence of local training in image interpretation

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	HWB6 LEVEL 2 HWB8 LEVEL 1/2 HWB 10 LEVEL 2/3 HWB 2 LEVEL 1	GEN 39 HCS A3 HCS A4 EMD7 M&L A2 LD11 LD 20 CARD 1 CARD 2 CARD 3	GEN5 Support individuals during and after clinical/therapeutic activities HSC242 Receive and pass on messages and information HSC234 Ensure your own actions support the equality, diversity, rights and responsibilities of individuals HI 10 Capture, organise and disseminate information and knowledge				<ul style="list-style-type: none"> • Desirable – recognise normal / abnormal MPI Training /Evidence of: <ul style="list-style-type: none"> • Understand procedure <ul style="list-style-type: none"> ○ Aware of common indications & contraindications for the test ○ Aware of complications & 	

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		CARD 4 CARD 5 CARD 6 CARD 7 CARD 8 MPHYS 8 MPHYS 9 MPHYS 10 MPHYS 11 NC2	EC 17 Intermediate life support EUSC01 Take a presenting history from an individual to inform assessment EUSC02 Obtain supporting information to inform the assessment of an individual EUSC51 Operate equipment required to support the intervention Or CHS112 Select imaging				side effects <ul style="list-style-type: none"> • Awareness of what is happening to the patient from beginning to end • Post test observations • Documentation of stress procedure (signed off by supervisor) • Quality checking of MPI studies • Recognising normal/abnorm 	

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		NC5 NC7 NC8 NC9 NC12 NC13 NC14 NC15 HCS R1 HCS R2	techniques/procedures for individual investigation HSC3115 Receive, analyse, process, use and store information Pharm 10 Issue prescribed items CHS6 Move and position individuals CHS177 Advise on access to and use of services HSC42 Contribute to the development and maintenance of health and safety practices in the				al MPI studies • Local IV certificate • Relevant cardiac stress competencies as per BANCC or BCS documents • Practical assessment minus choice of test (see practical assessment doc) • Evidence of local training in image interpretation	

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
		<p>HCS R3</p> <p>HCS R4</p> <p>HCS R5</p> <p>HCS R6</p> <p>HCS R8</p> <p>HCS R9</p> <p>HCS R10</p> <p>HCS R11</p> <p>HCS R12</p> <p>HCS R13</p>	<p>working environment</p> <p>GEN3 Maintain health and safety in a clinical/therapeutic environment</p> <p>HT4 Manage and organise your own time and activities</p> <p>HSC23 Develop your knowledge and practice</p> <p>EUSC91 Act within the limits of your competence and authority</p> <p>ENTO A Ensure your own actions reduce risks to health and</p>				<p>Training evidence requirement :-</p> <ul style="list-style-type: none"> • Recognise end points for stress • Recognise abnormalities • Inject radiopharmaceutical • Immediate Life Support (ILS) • Report on stress part of study • Understand Radiation/Medicines Legislation 	

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
		HCS R14 RP 13 RP14 RP15 RP18 RP19 RP20 RP21 RP22 HSC 23	safety HCS CARD 2 Prepare patient for cardiac procedure GEN4 Prepare individuals for clinical/therapeutic activities HCS Function D5 Comply with legal requirements for patient/client confidentiality M&L B8 Ensure compliance with legal, regulatory, ethical and social requirements				history, indications, contraindications • Inject radiopharmaceutical • Understand request justification & authorisation • Optional prescribing course at level 3 or above (HEIs offering this – nurses only at present)	

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		HSC 24 HSC 32 HSC 223 HSC 234 HSC 241 PHARM 3.09	CHS76 Obtain informed consent for interventions or investigations FB11 Perform routine ECG procedures (HCS CARD4) CHS19 Undertake physiological measurements HCS A5 Handle and store Medical equipment and consumables within accepted and safe limits HCS RTP31 Conduct definitive calibration				•	

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			of radiation delivery and measurement devices GEN13 Synthesise new knowledge into the development of your own practice EUSC68 Provide clinical care advice and information to individuals and others who are awaiting treatment or care HCS NC2 Prepare for imaging procedures GEN7 Monitor and manage the environment and resources during and					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			after clinical/therapeutic activities R5 Dispense aliquots of radioactive and non-radioactive medicinal products for immediate use HCS R4 Prepare radioactive and non-radioactive medicinal products HCS NC8 Administer radioactive and non-radioactive medicinal products for diagnostic procedures Pharm 21 Generation					

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			and completion of documentation and preparation of starting materials, components and other consumables for the production of aseptic products HCS RP20 Co-ordinate storage, disposal and transfer of radioactive substances HCS RP21 Collect, monitor and record radioactive waste HCS RP27 Measure and record levels and characteristics of radiation					

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			CHS22 Perform Intravenous Cannulation CHS23 Carry out Intravenous Infusion CHS3 Administer medication to individuals GENXX3 Calibrate and verify equipment prior to clinical use GENXX6 Confirm sufficiency and					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			suitability of clinical equipment and resources required for procedure GEN7 Monitor and manage the environment and resources during and after clinical/therapeutic activities EUSC58 Assess an individual's needs arising from their health status EUSC09 Refer individuals for further assessment,					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			treatment or care CHS83 Interpret and report on the findings of investigations HCS NC5 Review patient status and suitability for diagnostic procedures HCS NC9 Acquire and record data during diagnostic imaging procedures CHS47 Monitor and assess individuals following treatments CHS110 Assess					

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			individuals' suitability to undergo imaging procedure CHS39 Assess an individual with a suspected health condition CHSXX Provide report on healthcare science investigations					
6	CORE1(3) Core2 level 3 Core 3 level 1 Core 3 level 3 Core 4 level 2/3	CHS 19 CHS 22 CHS 177 EC 17 (INTERMEDIATE)	HSC233 Relate to, and interact with, individuals M&L E6 Ensure health and safety requirements are met in your area of responsibility	Yes	BSc + post graduate courses + CPD	Unsupervised Stressor (requires indirect supervision from an advanced stressor or	<ul style="list-style-type: none"> All of the above plus History, indications, contraindications Recognise end points for stress 	<ul style="list-style-type: none"> pass practical assessment (see attached example) 75% pass mark Pass mcq – 75% pass mark Passed relevant cardiac competencies as per

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	Core 5 level 2 and/or 3 Core 6 level 1 Core 6 level 3 IK1 CORE 3 IK2 CORE 3 HWB7 LEVEL 1/2 HWB6 LEVEL 1 HWB6 LEVEL 2 HWB8 LEVEL 1/2 HWB 10 LEVEL 2/3	EUSC 91 GEN 4 GEN 5 GEN 6 GEN 12 GEN 13 GEN 22 GEN 39 HCS A3 HCS A4	HCS RP13 Optimise practices involving radiation GEN22 Communicate effectively with individuals and others GEN14 Provide advice and information to individuals on how to manage their own condition GEN5 Support individuals during and after clinical/therapeutic activities HSC242 Receive and			above)	<ul style="list-style-type: none"> Recognise abnormalities Inject radiopharmaceutical Immediate Life Support (ILS) Report on stress part of study Understand Radiation/Medicines Legislation history, indications, contraindications Inject radiopharmace 	BCS documents for nurses and PAMS or the BSC techs. This includes experience of caring for cardiac patients in both acute and chronic states <ul style="list-style-type: none"> Local approval to stress by ARSAC certificate holder and cardiologist Approval to inject isotopes by local physicist as per local rules. IR(ME)R procedures

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	<p>HWB 2 LEVEL 1 G6 level 2</p>	<p>EMD7 M&L A2 LD11 LD 20 CARD 1 CARD 2 CARD 3 CARD 4 CARD 5 CARD 6</p>	<p>pass on messages and information</p> <p>HSC234 Ensure your own actions support the equality, diversity, rights and responsibilities of individuals</p> <p>HI 10 Capture, organise and disseminate information and knowledge</p> <p>EUSC01 Take a presenting history from an individual to inform assessment</p> <p>EUSC02 Obtain supporting</p>				<p>utical</p> <ul style="list-style-type: none"> • Understand request justification & authorisation <p>Training evidence : BSc relevant nuclear medicine , post graduate experience /CPD</p> <ul style="list-style-type: none"> • Post basic degree level course in cardiothoracic patient care (with acute, chronic care and cardiac medicines content) 	

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		<p>CARD 7</p> <p>CARD 8</p> <p>MPHYS 8</p> <p>MPHYS 9</p> <p>MPHYS 10</p> <p>MPHYS 11</p> <p>NC2</p> <p>NC5</p> <p>NC7</p> <p>NC8</p>	<p>information to inform the assessment of an individual</p> <p>EUSC51 Operate equipment required to support the intervention Or CHS112 Select imaging techniques/procedures for individual investigations</p> <p>HSC3115 Receive, analyse, process, use and store information</p> <p>Pharm 10 Issue prescribed items</p> <p>CHS6 Move and position individuals</p>				<ul style="list-style-type: none"> • pass MSc module in adult physical assessment • pass viva conducted by clinician and cardiac trained stressor • pass yearly life support course in addition to ALS e.g. ILS or defibrillation course (UK resuscitation council) <p>Evidence of pass in prescribing course at level 3 or above</p>	

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		NC9 NC12 NC13 NC14 NC15 HCS R1 HCS R2 HCS R3 HCS R4 HCS R5	CHS177 Advise on access to and use of services HSC42 Contribute to the development and maintenance of health and safety practices in the working environment GEN3 Maintain health and safety in a clinical/therapeutic environment HT4 Manage and organise your own time and activities HSC23 Develop your knowledge and					

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		HCS R6	practice					
		HCS R8	EUSC91 Act within the limits of your competence and authority					
		HCS R9						
		HCS R10	EC 17 Advanced life support					
		HCS R11						
		HCS R12	ENTO A Ensure your own actions reduce risks to health and safety					
		HCS R13						
		HCS R14						
		RP 13	HCS CARD 2 Prepare patient for cardiac procedure					
		RP14	GEN4 Prepare individuals for clinical/therapeutic					

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		RP15 RP18 RP19 RP20 RP21 RP22 HSC 23 HSC 24 HSC 32 HSC 223	activities HCS Function D5 Comply with legal requirements for patient/client confidentiality M&L B8 Ensure compliance with legal, regulatory, ethical and social requirements CHS76 Obtain informed consent for interventions or investigations FB11 Perform routine ECG procedures (HCS CARD4)					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
		HSC 234 HSC 241 PHARM 3.09	CHS19 Undertake physiological measurements HCS A5 Handle and store Medical equipment and consumables within accepted and safe limits HCS RTP31 Conduct definitive calibration of radiation delivery and measurement devices GEN13 Synthesise new knowledge into the development of your own practice					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			EUSC68 Provide clinical care advice and information to individuals and others who are awaiting treatment or care HCS NC2 Prepare for imaging procedures GEN7 Monitor and manage the environment and resources during and after clinical/therapeutic activities R5 Dispense aliquots of radioactive and non-radioactive medicinal products for immediate use					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			HCS R4 Prepare radioactive and non-radioactive medicinal products HCS NC8 Administer radioactive and non-radioactive medicinal products for diagnostic procedures Pharm 21 Generation and completion of documentation and preparation of starting materials, components and other consumables for the production of aseptic products					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			HCS RP20 Co-ordinate storage, disposal and transfer of radioactive substances HCS RP21 Collect, monitor and record radioactive waste HCS RP27 Measure and record levels and characteristics of radiation CHS22 Perform Intravenous Cannulation CHS23 Carry out Intravenous					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			Infusion CHS3 Administer medication to individuals GENXX3 Calibrate and verify equipment prior to clinical use GENXX6 Confirm sufficiency and suitability of clinical equipment and resources required for procedure GEN7 Monitor and manage the					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			environment and resources during and after clinical/therapeutic activities EUSC58 Assess an individual's needs arising from their health status EUSC09 Refer individuals for further assessment, treatment or care CHS83 Interpret and report on the findings of investigations HCS NC5 Review patient status and suitability for					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			diagnostic procedures HCS NC9 Acquire and record data during diagnostic imaging procedures CHS47 Monitor and assess individuals following treatments CHS110 Assess individuals' suitability to undergo imaging procedure CHS39 Assess an individual with a suspected health condition					

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Career framework	Proposed KSF	Original NOS undergoing review	Proposed new NOS for discussion alongside original NOS	Registration	Qualification	Work Level	Syllabus	Evidence
			CHS178 Determine investigations to meet clinical need HCS NC6 Review patient status, suitability and consent for MPI Stress test CHS83 Interpret and report on the findings of investigations CARD 8 Analyse data to produce a factual cardiac report. HCS CARD 9 Produce a clinical interpretation for management of cardiac conditions					

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			CHSXX Provide report on healthcare science investigations					
7	CORE1(4) Core2 level 4 Core 3 level 4 Core 4 level 3 Core 5 level 3 Core 6 level 3 IK1 CORE 3/4 IK2 CORE 3	D5 all	ALL OF ABOVE PLUS Management and leadership competences +possible research competences + education and training competences M&L B8 Ensure compliance with legal, regulatory,	Yes	BSc plus post graduate courses	Unsupervised Advanced stressor (independent practice but might use PGD with ask Dr in specified circumstances)	<ul style="list-style-type: none"> All knowledge and skills of above Degree level knowledge of anatomy & physiology Advanced Life Support (ALS) Optional prescribing course at level 3 or above (see attached list of HEIs offering this – 	<ul style="list-style-type: none"> Post basic degree level course in cardiothoracic patient care (with acute, chronic care and cardiac medicines content) pass MSc module in adult physical assessment pass yearly life support course in addition to ALS e.g. ILS or defibrillation course (UK resuscitation

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	G6 level 3 G7 level 2 HWB7 LEVEL 2/3 HWB6 LEVEL 3 HWB8 LEVEL 2/3 HWB 10 LEVEL 2/3 HWB 2 LEVEL 1		ethical and social requirements HI 5 Analyse data and information and present outputs of analysis				nurses only at present) Training evidence : BSc relevant nuclear medicine , post graduate experience /CPD <ul style="list-style-type: none"> • Post basic degree level course in cardiothoracic patient care (with acute, chronic care and cardiac medicines content) • pass MSc module in adult physical 	council) <ul style="list-style-type: none"> • Evidence of pass in prescribing course at level 3 or above • pass viva conducted by clinician and (cardiac) pharmacist • Management – people, science and technology and resources • Leadership • Analytical, interpretive and judgmental skills

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							assessment	
8/9	CORE1(4) Core2 level 4 Core 3 level 4 Core 4 level 4 Core 5 level 4 Core 6 level 4 IK1 CORE 3/4 IK2 CORE 3/4 G6 level 3/4 G7 level 3		All OF ABOVE IN 7 Using higher level management and leadership competences to manage the department M&L competences + Additional application of Education and training competences L&D and ENTO standards	Yes	MSc Or doctorate Management qualifications and/or research	Accountable Training stressor	<ul style="list-style-type: none"> all of the above with optional courses as essential training and/or experience in training and assessing stressors and assistants at all grades training in leading and managing clinical teams knowledge to manage, maintain & 	<ul style="list-style-type: none"> successful completion of courses degree level teacher/assessor course – BSc level minimum evidence of management experience, 2 yrs minimum. Management module to MSc level and / or leadership course Essential - experience in protocol/PGD/policy

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	HWB7 LEVEL 4 HWB6 LEVEL 3/4 HWB8 LEVEL 3 HWB 2 LEVEL 2		+ undertaking or managing a comprehensive range of Research competences HCS RD 1-16				develop stress testing policies/PGD/procedures • Management – people, science and technology and resources • Leadership • Analytical, interpretive and judgmental skills	management • Ideally - passed research based course to MSc level