

FACULTY OF RADIOLOGISTS

TRAINING PROGRAMME IN DIAGNOSTIC RADIOLOGY

PART I TUTORIAL SCHEDULE

2019/2020

**Lectures will commence at 2.00pm in the Faculty Tutorial Room,
4th Floor 121 SSG unless otherwise stated
Anatomy lectures will be held in the rooms advised**

<u>DATE</u>	<u>TUTOR</u>	<u>SUBJECT</u>
<u>August 2019</u>		
Monday 26th 1.30pm 2.30pm	Training Programme Coordinator Anatomy Staff	Introduction CHEST: Anatomy
27 th & 28 th August 2019	Ultrasound Course	Attendance on one day only - Please see which day you are listed to attend
Thursday 29 th August 2.00pm 3.00pm 4.00pm	Anatomy Staff Dr J. Masterson	ABDOMEN: Anatomy (foregut, midgut) CHEST: Basic principles of chest imaging / basic anatomy /Vascular Anatomy, CT Anatomy
<u>September 2019</u>		
Monday 2nd Sept VENUE: Rm 321 No. 26 York St 2.00pm 3.00pm 4.00pm	Dr Geraldine O'Reilly Mr David Costello	Introduction to Physics Programme Overview Introduction to EM Spectrum, Matter & Energy Levels; band structure in solids
Thursday 5 th September VENUE: Rm 321 No. 26 York St 2.00pm 3.00pm 4.00pm	Mr Pat Cooney Mr Pat Cooney Mr. Pat Cooney	Production & Properties of X-Rays Part 1 Production & Properties of X-Rays Part 2 X-Ray Tubes/special features/Focal Spot/Rating/X-ray tubes for Special Applications (incl. Angiography, CT, Mammography etc.); Special filters; X-ray generators

<p>Monday 9th September VENUE: Rm 321 No. 26 York St</p> <p>2:00pm</p> <p>3:00pm</p> <p>4:00pm</p>	<p>Dr Geraldine O'Reilly</p> <p>Dr. Geraldine O'Reilly</p>	<p>X-ray Image formation. Concepts & Detectors (incl. Fluorescence, Phosphoresence)</p> <p>Interaction of Radiation with Matter: Optimisation of Contrast 1</p>
<p>Thursday 12th September VENUE: TR8 2:00pm Harold Browne LT</p> <p>3:00pm</p> <p>4:00pm</p>	<p>Anatomy Staff</p> <p>Mr David Costello</p> <p>Mr David Costello</p>	<p>ABDOMEN: Anatomy (hindgut, kidneys, post abd wall)</p> <p>Digital Images: Part 1</p> <p>Digital Images: Part 2</p>
<p>Monday 16th September VENUE: TR5 2:00pm</p> <p>3:00pm</p> <p>4:00pm</p>	<p>Mr. Dara Murphy</p> <p>Mr. Dara Murphy</p> <p>Dr David Murphy</p>	<p>Interaction of Radiation with Matter (1): Main mechanisms at diagnostic energies</p> <p>Interaction of Radiation with Matter (2): Beer's Law, Exponential Attenuation, Absorption/HVL/TVL .Interaction of Radiation with Matter: Factors affecting Attenuation & Scatter</p> <p>CHEST: High Resolution CT, Thoracic Intervention</p>
<p>Thurs 19th September</p> <p>2:00pm</p> <p>3:00pm</p> <p>4:00pm</p>	<p>Dr. Brian Daragh Murphy</p> <p>Mr. Niall Phelan</p> <p>Mr Niall Phelan</p>	<p>ABDOMEN: Ultrasound Anatomy/Technique</p> <p>Mammographic Physics & Equipment 1</p> <p>Mammographic Physics & Equipment 2</p>
<p>Monday 23rd September Should be SJH at all times 2:00pm</p> <p>3:00pm</p>	<p>Mr Colin Walsh</p> <p>Mr Dermot Gorman</p>	<p>Geometrical Factors and Unsharpness in Radiography</p> <p>Overview of Equipment</p>

4.00pm	Mr. Colin Walsh/Mr. Dermot Gorman/ Dr Jennie Cooke	Demonstration of X-Ray Equipment
Thursday 26th September	NO Lectures - ASM	
Monday 30th September 2:00pm	Dr. Lynn Gaynor	Digital Acquisition Systems 1: Computed Radiography
3:00pm	Dr. Lynn Gaynor	Digital Acquisition Systems 2: Direct digital systems
4.00pm	Dr. Lesley Malone	IRCP
<u>October 2019</u>		
Thursday 3rd October 2:00pm	Dr Pat Kenny	Image Quality 1: Spatial Resolution, Contrast Resolution & Artefacts (Analogue)
3.00 pm	Dr Pat Kenny	Image Quality 2: Spatial Resolution, Contrast Resolution, Artefacts etc (Digital)
4.00pm	Dr. Ronan Faulkner	AEC
Monday 7th October 2:00pm	Dr Ronan McDermott	ABDOMEN: Anatomy 1 - GI/Liver/Pancreas/Barium/CT/MRI GI radiology
3.00 pm	Dr Ronan McDermott	ABDOMEN: CT/MR Techniques
4.00pm	FREE SLOT	
Thursday 10th October 2:00pm Harold Browne LT	Anatomy Staff	PELVIS: Anatomy (Male & Female)
3.00pm Faculty Tutorial Room	Prof Michelle McNicholas	PELVIS: Anatomy (Male)
4.00pm	Dr Joan Heneghan	PELVIS: Anatomy/Technique (Female and MSK)

Monday 14th October 2:00pm 3.00pm 4.00pm	Dr. Pat Kenny Ms.Aoife Gallagher Dr Robin Gibney	Optimisation of Contrast: Selection of radiographic parameters Tomography (excl. CT) – Introduction to CT ABDOMEN: Liver and biliary anatomy
Thursday & Friday 17th & 18th October All Day	Physics	Radiation Protection Seminar
Monday 21st October Tutorial Room in Use	NO Lectures Train the Trainers	NO Lectures Train the Trainers
Thursday 24th October 2:00pm Harold Browne LT 3:00pm Faculty Tutorial Room 4:00pm	Anatomy Staff Dr Patricia Cunningham Dr. Lesley Malone	MSK – Upper Limb MSK: Upper limb: Anatomy and Techniques Image Intensifier – TV Systems
Monday 28th October	Bank Holiday	
Thursday 31st October 2.00pm Harold Browne LT 3:00pm Faculty Tutorial Room 4:00pm	Anatomy Staff FREE SLOT FREE SLOT	MSK: Lower limb

<u>November 2019</u>		
Monday 4th November		
2:00pm	Dr Lesley Malone	Image Intensifier – TV Systems 2 including full fluoroscopy systems
3:00pm	Dr Lesley Malone	Digital Acquisition Systems 3: Technology for DSA and Digital Fluorography
4:00pm	Dr. Brian Hogan	MSK: Upper limb: Anatomy and Techniques
Thursday 7th November VENUE: TR8		
2:00pm	Dr Patricia Cunningham	MSK: Lower limb: Anatomy and Techniques
3.00 pm	Dr Frank McGrath	MSK: Lower limb: Anatomy and Techniques
4.00pm	Dr Eoin Kavanagh TBC	MSK Foot and Ankle: Anatomy & Techniques
Monday 11th November		
2:00pm	Dr Lesley Malone	Flat panel fluoroscopy systems
3:00pm	Dr. Louise Bowden	Theory of gas detectors, scintillation detectors, PMTs solid state detectors: use in radiology
4.00pm	Dr. Louise Bowden	Radiation detectors for nuclear medicine and general purposes

Thursday 14th November VENUE: Harold Browne LT 2:00pm 3.00 pm 4.00pm	Anatomy Staff Anatomy Staff FREE SLOT	NEURO: Anatomy – Brain & Spine NEURO: Anatomy – Head & Neck
Monday 18th November 2:00pm 3.00pm 4:00pm	Ms Aoife Gallagher Ms.Aoife Gallagher Ms.Aoife Gallagher	CT Scanners: reconstruction of images from projections Artefacts in CT Helical & Multi Slice Scanners
Thursday 21st November Venue: Harold Browne LT 2:00pm 3.00pm 4.00pm	Anatomy Staff FREE SLOT Mr Don Carey	Anatomy – ENT Modes of Radioactive Decay - Radiation Units
Monday 25th November 2:00pm 3.00 pm 4.00pm	Ms. Jackie McCavana Dr Jennie Cooke Dr Jennie Cooke	Generators, common radiopharmaceuticals Kits & techniques; radiopharmacy design Gamma cameras and data processing systems SPECT CT Systems
Thursday 28th November 2:00pm 3.00pm 4.00pm	Dr. Louise Bowden Dr. Louise Bowden	DXA Scanners Display Technologies
<u>December 2019</u>		
Monday 3rd December	RSNA Week	NO LECTURE TODAY

Thursday 5th December 2:00pm 3.00pm 4.00 pm	Dr. James Meaney Dr. James Meaney Dr Niall McEniff	MRI: Applied MRI 1 MRI: Applied MRI 2 INTERVENTION: Non-vascular Interventions
Monday 9th December 2:00pm 3.00pm 4.00pm	Mr.Mike Rowan Dr. Geraldine O'Reilly Dr. Geraldine O'Reilly	QA Nuclear Medicine New Applications in CT (Part 1) New Applications in CT (Part 2)
Thursday 12th December 2.00pm 3.00pm 4.00pm	National Training Coordinator Dr S. Looby Dr S. Looby	MCQ NEURO: Skull and Skull Base – Part I NEURO: Skull and Skull Base Part II
Monday 16th December 2:00pm 3.00pm 4.15pm	Dr. Lesley Malone Dr.Geraldine O'Reilly Ms Anita Dowling	Radionuclide Dosimetry Mock Physics MCQ QA: in general radiography & fluoroscopy
Thursday 21st December	Christmas Holidays	
<u>January 2020</u>		
Tuesday 1st January	Bank Holiday	

Thursday 2nd January		
2:00pm	Prof Michelle McNicholas	ABDOMEN: Cross-sectional interventional techniques
3.00pm	XXXXXX TBC	MSK Intervention
4.00 pm	Dr. Sarah Power	NEURO: Cerebral & Spinal Angiography Anatomy & Techniques
Monday 6th January		
2:00pm	Mr Colin Walsh	Iterative Reconstruction
3.00pm	Dr. Geraldine O'Reilly	Radionuclide Therapy in a Diagnostic Imaging Department
4:15pm	Ms. Jackie McCavana	Tutorial: radiation protection & technical and practical aspects of nuclear medicine
Thursday & Friday 9th & 10th January Venue: Faculty Tutorial Room	Ultrasound Seminar (Physics)	Ultrasound Seminar
Monday 13th January		
2:00pm	Dr Julie Lucey	PET 1
3.00pm	Dr Julie Lucey	PET 2
4:00pm	tbc	3D Images, planar reformatting, 3D rendering, MIP, surface rendering, volume rendering
Thursday 17th January		
2:00pm	Dr Anthony Ryan	INTERVENTION: Arterial Anatomy/Techniques
3:00pm	Dr David Brophy	INTERVENTION: Vascular anatomy - neck, chest, abdomen and pelvis
4:00pm	Dr Ronan Browne	ABDOMEN: GI/GU Interventional Techniques
Monday 20th January		
2:00pm	Dr. Gerard Boyle	T1, T2 relaxation mechanisms
3.00pm	Dr. Gerard Boyle	Basic Physics of MRI
4:00pm	Dr. Gerard Boyle	MRI equipment

Thursday 23rd January All Day	IR Skills Course	Surgical Skills Lab
Monday 27th January 2:00pm 3.00 pm 4:00pm	 Dr. Gerard Boyle Dr. Gerard Boyle Dr. Gerard Boyle	 MRI Advanced sequences Pulse sequences and contrast 1 MRI Pulse Sequences & Contrast 2
Thursday 30th January Venue: TR8 2.00pm 3.00pm 4.00pm	 Dr James Griffin Dr Conor Shortt Dr Conor Shortt	 HEAD & NECK: Anatomy/Radiology Part I MSK - Shoulder MSK - Knee
<u>February 2020</u>		
Monday 3rd February 2:00pm 3.00 pm 4:00pm	 Dr.Lynn Gaynor Mr Pat Cooney Dr James Griffin	 Revision Tutorial 1: Interaction of Radiation with matter. Revision Tutorial 2: Radiographic and Fluoroscopic Technology. Anatomy – Head & Neck Radiology Part II
Thursday 6th February All Day Venue: TR8 & Faculty Training Room	Mock Exams	RCSI (TR8, Main College and Faculty Tutorial Room)

Monday 10th February		
2:00pm	Dr. John Feeney	NUCLEAR MEDICINE: Equipment and Techniques
3.00 pm	Dr. S. Skehan	NUCLEAR MEDICINE: Cardiac and Lung Scintigraphy
4:00pm	Dr David Rea	PAEDIATRICS: Anatomy and Techniques
Thursday 13th February		
2:00 pm	Dr Stephanie Ryan	PAEDIATRICS: Anatomy and Techniques
3.30 pm	Dr. Eilish Twomey	PAEDIATRICS: Anatomy & Techniques
Monday 17th February		
2:00pm	Ms. Anita Dowling	Equipment specification, purchase and commissioning
3.00 pm	Dr. Emer Kenny	Revision Tutorial 3: Contrast.
4.15pm	Mr. Dermot Gorman	Revision Tutorial 4: X-Ray Tubes & Equipment.
Thursday 20th February		
2:00pm	Dr. Gerard Boyle	MRI Image Formation
3.00 pm	Dr. Gerard Boyle	MRI gradient echo
4.15pm	Dr Gerard Boyle	MRI – Flow / Angiography
Monday 24th February		
2:00pm	Dr. Lesley Malone	MRI Safety 1
3.00 pm	Dr. Lesley Malone	MRI Safety 2
4.15pm	Mr. David Costello	MRI – Artefacts

Thursday 27th Feb		
2.00pm	Dr Martin O'Connell	NUCLEAR MEDICINE: Positron Emission Tomography
3.00pm	Dr. Brendan Hogan	NUCLEAR MEDICINE: Bone/Endocrine/Hepatobiliary/Other
4.00pm	TBC	MSK: Intervention
<u>March 2020</u>		
Monday 2nd March		
2:00pm	Dr Seamus Looby	NEURO: Cortical and Sulcal Anatomy
3:00pm	Dr Seamus Looby	NEURO: ENT Radiological Anatomy
4:00pm	Dr Seamus Looby	NEURO: ENT Radiological Anatomy
Thursday 5th March		
2.00pm	Dr Susannah Harte (TBC)	Gynae lecture
3:30pm	Dr Carmel Cronin	Retroperitoneum and renal anatomy
Monday 9th March		
2.00pm	Prof Max F. Ryan	Mammographic techniques, breast ultrasound and intervention
3.00pm	Dr. Sebastian McWilliams	NEURO: Spine Part I
4.00pm	Dr. Sebastian McWilliams	NEURO: Spine Part II
Thursday 12th March		
2.00 pm	Dr. Gerard Boyle	MRI
3:00pm	Dr. Gerard Boyle	MRI
4:00pm	FREE SLOT	
Monday 16th March		
2:00pm	Dr Tadhg Gleeson	CT Dose
3.00pm	tbc	AI in Radiology Part 1
4.00pm	tbc	Machine learning

Thursday 19th March VENUE TR8: 2:00pm 3:00pm 4:00pm	Prof Jonathan Dodd Prof Jonathan Dodd Prof Jonathan Dodd	Cardiac MRI CHEST: Cardiac Anatomy/Techniques 1 CHEST: Cardiac Anatomy/Techniques 2
Monday 23rd March 2.00pm 3:00pm 4.00pm	Dr. Neil O'Hare Dr. Neil O'Hare Dr Neasa Ni Mhuirheartaigh	PACS 1 PACS 2 CHEST: CT thorax. Technique and Anatomy
Thursday 26th March VENUE TR8: 2.00pm 3.00pm 4.00pm	Dr. Gerard Boyle Dr. Gerard Boyle Dr. Gerard Boyle	MRI MRI MRI
Monday 30th March 2.00pm 3.00pm 4.00pm	Mr Colin Walsh Mr Colin Walsh FREE SLOT	Revision Tutorial 5: CT Revision Tutorial 6: II/TV/ Fluoroscopic Systems
<u>April 2020</u>		
Thursday 2nd April 2.00pm 3.00pm 4.00pm	Dr. Geraldine O'Reilly Ms Anita Dowling	Revision Tutorial 7: Radiation Protection (incl. units) Revision Tutorial 8: QA in Radiology/Fluoroscopy

Monday 6th April Faculty Tutorial Room not available	Part II Exams (Final FFR)	Part II Exams (Final FFR)
Thursday 9th April 2.00pm 3.30pm	Mr.Dara Murphy Mr. Dara Murphy	Revision Tutorial 9: Nuclear Medicine (Physics & Pharmacy). Revision Tutorial 10 Nuclear Medicine Equipment
Sunday 12th April	Easter Break	
Thursday 16th April 2.00pm 3.00pm 4.00pm	Dr Pat Kenny Dr. Lesley Malone Dr Sean Cournane	Revision Tutorial 11 MRI Revision Tutorial 12 Digital Imaging Revision Tutorial 13: Ultrasound (Physics)
Monday 20th April 2.00 pm 3.00 pm 4.00 pm	Dr Martin Shelly Dr Martin Shelly Dr Martin Shelly	ABDOMEN: Anatomy - Vascular and CT, GI/Liver/Pancreas/Barium/CT/MRI Retroperitoneum, peritoneal cavity, abdominal vascular anatomy, and upper GI anatomy
Thursday 23rd April 2.00 pm 3.00 pm 4.00 pm		

Monday 27 th April 2.00pm 3.00pm 4.00pm		
Thursday 30 th April 2.00pm 3.00pm 4.00pm		
Thursday 30 th April & Friday 1 st May TO BE CONFIRMED	Final FFR Radiotherapy	RCSI College & Faculty Tutorial Room
<u>May 2020</u>		
Monday 4 th May	Bank Holiday	
Thursday 7 th May/Friday 8 th May TO BE CONFIRMED	FFR Primary Exams	RCSI College & Faculty Tutorial Room
	FFR Primary Exams	RCSI College & Faculty Tutorial Room
Friday 5 th June 2019 Brookfield, UCC	Emergency Medicine Course	Cork
5 th June Cork 11 th June 25 th June Proposed Dates – Subject to Change	SpR Assessments	Faculty Tutorial Room (All Dublin)

Yellow Highlighted items TO BE CONFIRMED
Text in Pink To be changed to another date