

MASTER OF RADIOLOGY
YEAR II CONJOINT (UM/UKM) LECTURERS
SESSION 2020/2021
(Each session: Thursday 2.00-4.30pm)

No.	Topics	Date	Lecturers
1	CHEST Pattern recognition To identify lesion in various spaces Mediastinum Pleural Lung – tumour vs infection Extra thoracic	11/06/2020	Prof Dr Hamzaini Abdul Hamid (UKM)
2	CHEST Pattern recognition Lung disease Alveolar Interstitial Airway <input type="checkbox"/> Plain radiograph <input type="checkbox"/> HRCT appearance eg GGO/mosaic/tree in bud etc	18/06/2020	Dr Eric Chung UM
3	CHEST Diseases Mediastinum/ pleura Tumour/infection	25/06/2020	Dr Aida Widure Mustapha Mohd Mustapha (UKM)
4	CHEST Diseases of the Airways Diffuse lung diseases Chest trauma; the post-operative chest; intensive care; radiation chest trauma	02/07/2020	Dr. Chan Kin Wong UM
5	CHEST Heart Radio-pathological correlation CCF PVH PAH Valvular heart disease Infarct – CTA/MR cardiac	09/07/2020	Dr Nik Azuan Nik Ismail (UKM)

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No.	Topics	Date	Lecturers
6	MUSCULOSKELETAL SYSTEM Infection Pathophysiology, Radiological features (Plain radiograph, MRI, CT, Nuclear Medicine, Ultra-sound), Routes of Spread, Stages of <u>Osteomyelitis</u> Terminology (Sequestrum, Involucrum, Cloca) Brodie Abscess Multifocal Septic Arthritis Spondylodiscitis Soft tissue infection	16/07/2020	Dr. Cheah Peng Loon UM
7	MUSCULOSKELETAL SYSTEM (A) Bone Tumours Imaging Features (Primarily Radiographic) Size Location Margin/Zone of Transition Aggressiveness/Growth Pattern DDX-Infection Internal Characteristics Pattern of Osteolysis Matrix/Calcification Involvement of Adjacent Structures Benign/ Malignant Primary or Secondary Bone Tumours (i.e. radiation, Pagets) (B) Soft Tissue Tumours (MRI characteristics primarily) Lipoid Fibrous Cartilaginous Neural Muscle Vascular Miscellaneous Primary Secondary Leukaemia Lymphoma	23/07/2020	Dr Nik Farhan Nik Fuad (UKM)

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8	<p>MUSCULOSKELETAL SYSTEM</p> <p>Arthropathies</p> <p>General</p> <ol style="list-style-type: none"> 1. Distribution 2. Soft Tissue Changes 3. Joint Space Narrowing 4. Bone Density 5. Osteophyte 6. Subchondral Cysts 7. Erosions 8. Proliferative New Bone 9. Joint Deformity 10. Calcification <p><u>Subtypes</u></p> <p>Osteoarthritis</p> <p>Inflammatory arthritis</p> <p>Rheumatoid Arthritis</p> <p>Psoriatic Arthritis</p> <p>Ankylosing Spondyloarthritis</p> <p>Enteropathic Spondyloarthropathy</p> <p>Juvenile Chronic Arthritis</p> <p>Crystal associated</p> <p>-Gout</p> <p>-Calcium Pyrophosphate Deposition Disease (CPPD)</p> <p>Connective Tissue Disease (SLE, Scleroderma, Dermatomyositis, Polymyositis)</p> <p>Miscellaneous</p> <p>Haemochromatosis</p> <p>PVNS</p> <p>Synovial chondromatosis</p>	30/07/2020	Dr. Chermaine Deepa UM
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9	<p>MUSCULOSKELETAL SYSTEM Sports injury & Skeletal trauma</p> <p>Shoulder Rotator Cuff Impingement, Degeneration and Tear Glenohumeral Dislocation, Instability and Labral Tears</p> <p>Elbow Ligaments and tendons- Sprains and Tears</p> <p>Wrist Triangular Fibrocartilage Complex Injury</p> <p>Hip Femoroacetabular Impingement and Labral Tears</p> <p>Knee Meniscal Injuries Cruciate Ligament Injuries Collateral Ligament Injuries Tendon Injuries Chondral Cartilage Injuries</p> <p>Ankle Ligaments and tendons- Sprains and Tears Osteochondral injuries</p> <p>Fractures Emphasis of Spine Fractures/Dislocation</p>	06/08/2020	Prof. Madya Dr. Faizatul Izza Rozalli UM
10	<p>MUSCULOSKELETAL SYSTEM</p> <p>Miscellaneous <u>Metabolic Disorders</u> 1)Osteoporosis 2)Hyperparathyroidism 3)Thyroid Diseases 4)Rickets and Osteomalacia 5)RenalOsteodystrophy</p> <p><u>Haematogenous Disorders</u> 1)Thalassemia 2)Hemophilia 3)Myelofibrosis 4)Marrow reconversion 5)Extramedullaryhematopoiesis</p> <p><u>Osteonecrosis</u> 1)Causes 2)Site specific Disease</p> <p>Common congenital /dysplastic conditions Achondroplasia OsteogenesisImperfecta Osteopetrosis Melorrrheostosis Mucopolysaccharidoses Tarsal coalition</p>	13/08/2020	Dr Juliana Fairuz Maktar (UKM)

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11	ABDOMEN Pattern recognition Stricture : benign vs malignant Thickening : benign vs malignant *contrast study/CT Polyps & nodules (filling defect) Pneumoperitoneum signs Bowel dilatation/obstruction – how to approach Enhancement pattern of bowel wall thickening	27/08/2020	AP Dr Nur Yazmin Yaacob (UKM)
12	ABDOMEN Diseases UC & Crohns Tumours/infection (TB, pseudomembranous) Investigation of GI haemorrhage – findings/signs	03/09/2020	Dr Isa Azzaki (UKM)

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13	EXTRACRANIAL HEAD AND NECK Temporal bone/ ear	12/11/2020	AP Dr Kew Thean Yean (UKM)
14	EXTRACRANIAL HEAD AND NECK Paranasal sinuses/ orbit	19/11/2020	Dr. Norshazriman Sulaiman UM
15	EXTRACRANIAL HEAD AND NECK Neck spaces Supra/infrathyoid lesions	26/11/2020	Prof Madya Dr. Mohammad Nazri Md Shah UM

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16	PAEDIATRIC Brain Neonatal Brain Injury(preterm vs term) Common developmental and congenital abnormalities Neurocutaneous syndrome Infection NAI Spine spinal dysraphism and low lying cord Neck Cystic / solid neck masses Retinoblastoma	03/12/2020	AP Dr Faizah Mohd Zaki (UKM)
17	PAEDIATRIC Chest Diffuse pulmonary disease in newborn (surfactant deficiency disease, TTN, MAS, neonatal pneumonia) Focal pulmonary lesion in newborn Lucent vs solid lesion Assessment of lines and tubes Chronic lung disease of prematurity Infections in infants and older children MSK NAI Tumours Infection	10/12/2020	Dr Erica Yee Hing (UKM)
18	PAEDIATRIC Abdomen NEC High/low intestinal obstruction Intraabdominal calcification Vomiting infant Acute abdomen Neonatal jaundice Hydronephrosis in a child	17/12/2020	Dr. Caroline Judy Westerhout UM
19	BREAST Pattern of calcification Mass : benign vs malignant Density Birads calcification MRI	24/12/2020	Prof. Dr. Kartini Rahmat UM

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20	OBSTETRIC AND GYNAECOLOGY Tumours Infection Gravid and non gravid uterus Ectopic pregnancy	31/12/2020	Dr Erica Yee Hing (UKM)
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21	VASCULAR Aneurysm Atherosclerosis Fibromuscular dysplasia Arteriovenous malformation Embolism Pattern of vascular trauma/injury Pseudoaneurysm/ graft/ DVT	07/01/2021	AP Dr Rozman Zakaria (UKM)
22	INTERVENTIONAL RADIOLOGY Basic principal Cases Complication	14/01/2021	Dr. Nur Adura Yaakup UM

23	LIVER Tumour – enhancement pattern and physiology HCC Metastasis Hypervascular lesions Haemangioma Cholangiocarcinoma Benign liver tumours Diffuse liver disease Abscess	21/01/2021	Dr Ng Wei Lin UM
24	PANCREAS AND SPLEEN The biliary tract – stricture benign vs malignant Calcification – pancreas/liver/spleen Pancreas- tumours, cyst. Hypervascular lesion	04/02/2021	Prof. Madya Datin Seri Dr Ouzreiah Nawawi UM

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25	GUT Kidney Renal – mass (RCC, TCC, AML) Cyst (bosniak) Infection PC system – obstruction/mass (TB) Bladder, prostate, testis (MRI prostate)	18/02/2021	Dr Rizuana Iqbal Hussain (UKM)
26	ABDOMEN Misc Peritoneal disease Nodules Omental caking Myxedema Retroperitoneal lesion – fibrosis, lipoma	25/02/2021	Dr. Fadhli Mohd Sani UM

27	NEURORADIOLOGY Ischaemia Pathophysiology and radiopathological correlation of arterial vs venous, watershed Vascular Evolution of haematoma Vascular malformation- pathology Trauma – herniation syndrome	04/03/2021	Dr Leong Yuh Yang (UKM)
28	NEURORADIOLOGY Infectious and non infectious inflammatory Routes of infection, diffuse vs focal Anatomically bounded infectious process Common infection (viral, bacterial etc) Demyelination Primary : MS Secondary	18/03/2021	Dr Leong Yuh Yang (UKM)
29	NEURORADIOLOGY Tumours Lesion characterization intrav extra axial cortical, parenchymal, lepto/pachymeningeal periventricular Advance neuroimaging/spectroscopy/perfusion intratumoural haematomas benign intracranial haematoma Sellar, CPA	25/03/2021	Prof. Dr. Norlisah Ramli UM

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30	NEURORADIOLOGY Spine Lesion localization Common lesion Extradural, intramedullary Vascular malformation	01/04/2021	Prof. Madya Dr. Raja Rizal Raja Aman UM
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