

**12th Congress of the World Federation of Nuclear Medicine
and Biology**
20-24 April 2018
Melbourne Convention and Exhibition Centre

TRACK :Musculoskeletal SPECT/CT

Saturday 21 April 2018

10:30-12:00	Musculoskeletal SPECT/CT Imaging 1	Speaker	Time
	Chair: Dr Stephen Allwright		
10:30-11:00	<p>The Changing Role of Nuclear Medicine in Sports Medicine in the Era of MRI - Where to Next? Learning objectives:</p> <ol style="list-style-type: none"> 1. Why is nuclear medicine usage declining in general use in sports medicine? 2. Is there an area where we can increase the use of nuclear medicine in sports medicine? 3. What directions should nuclear medicine pursue in its research endeavours to regain ground and relevance in sports injury imaging? 	Prof Hans Van der Wall, Concord Nuclear Imaging, Sydney, Australia	30 mins
11:00-11:30	<p>SPECT-CT IN POST OPERATIVE SPINE Learning Objectives:</p> <ol style="list-style-type: none"> 1. To understand the types of prosthesis, acute and chronic complications 2. To understand clinical application of SPECT-CT in post operative spine 3. To recognize the physiological and pathological patterns in post operative spine. 	Dr Gopinath Gnanasegaran, Royal Free London NHS Foundation Trust, UK	30 mins
11:30-12:00	<p>SPECT-CT IN PAINFUL KNEE REPLACEMENTS Learning Objectives:</p> <ol style="list-style-type: none"> 1. To understand the normal SPECT-CT appearances of knee replacements. 2. To learn how to use CT to assess component position of a knee replacement. 3. To know the 3 steps in identifying the cause of pain with SPECT-CT. 	Dr Arum Parthipun, Royal Free London NHS Foundation Trust, UK	30 mins

Sunday 22 April 2018

10:30-12:00	Musculoskeletal SPECT/CT Imaging 2		
	Chair: Prof Hans Van der Wall		
10:30-11:00	SPECT CT Evaluation of the Painful Hip Prosthesis Learning Objectives: 1. To understand the patterns of uptake around normal and abnormal hip prostheses over time. 2. To recognize the pathological patterns of uptake around painful hip prostheses. 3. To understand some of the biomechanical processes leading to the patterns of uptake and the variations seen with different types of prostheses.	Dr Stephen Allwright, Mater & Northern Beaches Hospitals, Australia	30 min
11:00-11:30	SPECT-CT IN FOOT AND ANKLE PAIN: Learning Objectives: 1. To know how to optimise image quality for foot and ankle examinations. 2. To learn the relevant anatomy of the foot and ankle. 3. To learn the most common indications for foot and ankle SPECT-CT.	Dr Arum Parthipun, Royal Free London NHS Foundation Trust, UK	30 min
11:30-12:00	SPECT-CT IN INDETERMINATE BONE LESIONS: Learning objectives : i) To discuss the role of scintigraphy in assessing bone lesions and the reporting process ii) To discuss the benefits and limitations of SPECT/CT in assessing bone lesions iii) To discuss when and how to perform SPECT/CT bone iv) To discuss the interpretation of SPECT/CT bone lesions	Dr Sai Han, Glasgow Royal Infirmary & Gartnavel General Hospital, Glasgow UK	30 min
16:15-17:15	MUSCOSKELETAL-PET in RHEUMATOLOGICAL DISORDERS		
	Chair: TBC		
16:15-16:45	The Role of PET in Vasculitis and Polymyalgia Rheumatica Learning Objectives 1. Understand the evolving role of whole body PET/CT in the diagnosis and management of large vessel vasculitis; 2. Appreciate how whole body PET/CT has contributed to our understanding of the pathology of polymyalgia rheumatica; 3. Learn the imaging phenotype of polymyalgia rheumatica on whole body PET/CT and understand the potential clinical applications of this imaging	Dr Claire Owen, Melbourne, Australia	30 mins
16:45-17:15	The Role of Nuclear Medicine in Assessment of Arthritis Learning Objectives 1. Understand the evolving role of whole body PET/CT in the diagnosis of arthritis; 2. Appreciate how whole body PET/CT has contributed to our understanding of the pathology of arthritis; 3. Learn the imaging phenotype of arthritis on whole body PET/CT and understand the potential clinical applications of this imaging modality in this condition.	Dr Subanesan Nadesapillai Royal Melbourne Hospital, Australia	30 mins
17:15-17:45	Update on Radiosynovectomy for Hemophilic Arthropathy and Rheumatoid Arthritis Learning Objectives 1. To understand the procedure in terms of mechanism and response to treatment. 2. To understand the new radionuclides that can be used for this procedure. 2. To understand the choice of isotope and dose for the different joints to be treated.	Dr. Emerita Barrenechea, Veterans Memorial Medical Centre , Quezon City, Philippines.	30 mins

Tuesday 24 April 2018

10:30-12:00	Musculoskeletal SPECT/CT Imaging 3		
10:30-11:00	<p>Chair: Dr Sai Han, Glasgow Royal Infirmary & Gartnavel General Hospital, Glasgow UK</p> <p>SPECT/CT in Charcot osteoarthropathy - lessons from a multidisciplinary diabetic foot service: Using illustrated case examples and algorithms from Kings diabetic foot unit, an internationally recognized centre of excellence with low amputation rate and one of the largest and oldest in UK</p> <p>Learning objectives:</p> <ul style="list-style-type: none"> i) To understand the pathophysiology of Charcot foot; ii) To be able to recognise the clinical presentation and understand limitations of pre imaging investigations; iii) To understand the role of SPECT CT in the management of Charcot osteoarthropathy. 	Dr Nicola Mulholland, King's College, London, UK	30 mins
11:00-11:30	<p>Musculoskeletal Artefacts in SPECT/CT</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> i) Bone SPECT CT is a relatively new hybrid imaging modality combining inputs from both functional SPECT and structural CT into a single scanning session and it becomes more important to be aware of the limitations of each modalities to avoid false interpretation. ii) It is necessary to be able to recognize various technical, radiopharmaceutical, and patient-related artifacts that can occur while carrying out a bone SPECT CT procedure . Furthermore, several normal variations of tracer uptake which may mimic a pathology and needs to carefully evaluated. iii) To develop an understanding of steps to limit these factors, actions to correct them if they do arise and, when necessary, how to incorporate their influence into the interpretation of the study. 	Dr Rijju Gopinath, Aster Hospital, Kerala, India	30 mins
11:30-12:00	<p>INTERESTING CASES IN SPECT-CT:</p> <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. To understand the unique role of SPECT/CT in musculoskeletal trauma and pathology. 2. To outline the criteria for clinical imaging of musculoskeletal system by using SPECT/CT 3. To understand the SPECT/CT features of diabetic foot and the differential diagnosis of pathology in the diabetic foot 4. To understand the role of musculoskeletal SPECT/CT using a combination of multiphase bone scan and infection/inflammation imaging for the diagnosis and differential diagnosis of bone and soft-tissue infection. 	Dr Qaisar Siraj, Fawania Hospital, Kuwait	30 mins