Vuclear s Vedicine UPDATE 2017

17 - 19 August 2017 Singapore

theme:

Nuclear Medicine in the Era of Precision Medicine



DAY 1: THURSDAY, 17 AUGUST 2017

	DAT I. INUKSDAT, IT AUGUST 2017
0800 - 0830	REGISTRATION
0000 0000	(Coleman Room Foyer, Level 4)
0830 - 0840	INAUGURATION
	(Jubilee Ballroom, Level 4)
0830 – 0835	Welcome Address
0025 0040	Dr David Ng, President, Nuclear Medicine Society (Singapore)
0835 - 0840	Opening Address
0840 – 1015	SCIENTIFIC SESSION 1: NUCLEAR MEDICINE IN WORLD SCOPE (Jubilee Ballroom, Level 4)
0840 – 0900	Nuclear Medicine and Global Initiative in Radiopharmaceuticals
00.0 0000	Prof Andrew Scott, Molecular Imaging and Therapy, Austin Health, Melbourne, Australia
Objectives	1. Review the issues impacting on radiopharmaceutical access in developed and developing countries.
	2. Explain the new technologies impacting on radiopharmaceutical use in nuclear medicine practice.
	3. Integrate the evidence required for new radiopharmaceuticals approval with available datasets.
0905 – 0925	Education and Training of Nuclear Medicine Professionals in Asia
	Prof Henry Bom, Nuclear Medicine, CNU Medical School, Korea
Objectives	1. Attendees will learn the current situation and prospects of education and training for nuclear medicine professionals in Asia.
	2. Attendees will learn the basic curriculum of nuclear medicine physician training. 3. Attendees will learn the peads for the education of referring physicians.
0930 – 0950	3. Attendees will learn the needs for the education of referring physicians. New Clinical Trial Designs for Precision Medicine: The US NCI-MATCH Trial
0930 - 0930	Prof Terence Z Wong, Nuclear Medicine, Lineberger Comprehensive Cancer Center, University of North Carolina School of Medicine, USA
Objectives	1. Review the development of clinical trial design for targeted therapeutic agents.
,	2. Update the current status of the US NCI-MATCH trial.
	3. Explain the current and potential future roles of imaging in targeted therapy trials.
0955 – 1015	Role of the IAEA in Promoting Nuclear Medicine Worldwide
	Mr Thomas Pascual, Nuclear Sciences and Applications, International Atomic Energy Agency, Austria
Objectives	1. Review the role of IAEA in world nuclear medicine.
	2. Outline the future plan of collaboration of IAEA and member states.
1020 – 1040	Coffee & Tea Break / Trade Exhibition / Poster Viewing (Coleman Room, Level 4)
1040 – 1215	SCIENTIFIC SESSION 2: IMMUNOTHERAPY AND RESPONSE ASSESSMENT
	(Jubilee Ballroom, Level 4)
1040 – 1100	Evolving Treatment Response Criteria in Oncology
Objective	Dr Hossein Jadvar, Radiology, University of Southern California, USA
Objectives	 Review the role of imaging in assessment of response to cancer treatment. Explain the shortcomings of anatomic based treatment response criteria.
	3. Integrate the concept of metabolic criteria into framework of treatment response assessment.
1105 – 1125	Molecular Imaging of the Tumour Microenvironment
	Prof Andrew Scott, Molecular Imaging and Therapy, Austin Health, Melbourne, Australia
Objectives	1. Review the concept of targeting the tumour microenvironment in cancer models and patient.
	2. Explain the advantages/disadvantages of targets and techniques in identifying microenvironment contribution to tumour growth.
	3. Integrate the concept of imaging the tumour microenvironment with new therapies in cancer patients.
1130 – 1150	PET/CT monitoring of Response to Immunotherapy
Ohioativaa	A/Prof Michael Hofman, Centre for Cancer Imaging, Peter MacCallum Cancer Centre, Australia
Objectives	 Review the concept of immunotherapy for treatment of malignancies, with a particular focus of metastatic melanoma. Explain the appearances of immune-related adverse effects that may be visualised on FDG PET.
	3. Integrate how to assess response to immunotherapy in the clinical practice of Nuclear Medicine.
1155 – 1215	Imaging as a Biomarker for Targeted and Immunotherapy
	Prof Terence Z Wong, Nuclear Medicine, Lineberger Comprehensive Cancer Center, University of North Carolina School of Medicine, USA
Objectives	1. Review the applications of imaging as a biomarker in the context of targeted therapy.
	2. Explain the evaluation criteria of biomarkers.
	3. Define prognostic, pharmacodynamic, predictive, integrated, and integral biomarkers.
1215 – 1245	Lunch / Trade Exhibition / Poster Viewing
1245 - 1245	(Coleman Room, Level 4) LUNCH SYMPOSIUM (SPONSORED BY GE HEALTHCARE DIE LTD)
1245 – 1345	LUNCH SYMPOSIUM (SPONSORED BY GE HEALTHCARE PTE LTD) (Jubilee Ballroom, Level 4)
1345 – 1445	SCIENTIFIC SESSION 3: CHINA PRESENTS
	(Jubilee Ballroom, Level 4)
1345 – 1405	Current Status of Nuclear Medicine in China
	Prof Li Yaming, President/CSNMMI, China
1405 – 1425	Clinical Translation of Radionuclide Molecular Imaging & Translational Research Pattern in PUMCH
4.65	Prof Li Fang, Director/Nuclear Medicine, Peking Union Medical College Hospital, China
1425 – 1445	18F-DOPA clinical applications and single center experience
Objectives	Prof Wang Feng, Director/Nuclear Medicine, Nanjing Hospital, China 1. To evaluate the clincal role of 18F-dopa PET/CT for the detection of Neuroendocrine tumors and compared with 68Ga-SSA PET/CT.Especially,18F-dopa
Dojectives	PET/CT for the diagnosis of pNET was addressed.
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	(continued)
1450 – 1545	ORAL PRESENTATION SESSION 1: CHINA PRESENTS (Jubilee Ballroom, Level 4)
1545 – 1605	Coffee & Tea Break / Trade Exhibition / Poster Viewing (Coleman Room, Level 4)
1605 – 1705	SCIENTIFIC SESSION 4: NUCLEAR NEUROLOGY (Jubilee Ballroom, Level 4)
1605 – 1625	Update on Tau Imaging Tracers Dr Daniel L. Yokell, Gordon Center for Medical Imaging, Massachusetts General Hospital/Harvard Medical School, USA
1625 – 1645	Dementia Imaging Update and Local Experience
	Dr Andrew Tan, Radiology, Raffles Medical Group, Singapore
Objectives	1. Sharing of experiences in starting dementia imaging services and sample cases.
1645 – 1705	How DaTSCAN can Change Clinical Practice and an Update on Our Local Experience
	Dr Xie Wanying, Nuclear Medicine & PET, Singapore General Hospital, Singapore
Objectives	1. Review the concept of dopaminergic neurotransmission in Parkinsonism and other movement disorders.
	2. Explain the advantages and limitations of DaTSCAN in the diagnosis of Parkinson's disease.
	3. Integrate DaTSCAN imaging in the diagnostic pathway for Parkinsonism.
1705 – 1830	ORAL PRESENTATION SESSION 2
	(Jubilee Ballroom, Level 4)
1830	End of Day 1



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DAY 2: FRIDAY, 18 AUGUST 2017

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0800 – 0830	REGISTRATION (Coleman Room Foyer, Level 4)
0830 – 0940	SCIENTIFIC SESSION 5: NEUROENDOCRINE TUMOR PRRT (Jubilee Ballroom, Level 4)
0830 – 0850	PRRT Current Status and Directions
Objectives	 A/Prof Paul Roach, Nuclear Medicine, Royal North Shore Hospital, Australia Review the concept of PRRT in the management of patients with neuroendocrine tumours (NETs). Explain the role of Ga68 dotatate and other tracers such as F18 FDG in appropriately selecting PRRT in patients with NETs. Integrate the concept of functional imaging in the clinical practice of Nuclear Medicine for patients undergoing PRRT.
0855 – 0915	PRRT Dosimetry A / Drof Michael Hefman, Centre for Cancer Imaging, Peter MacCallum Cancer Centre, Australia
Objectives	 A/Prof Michael Hofman, Centre for Cancer Imaging, Peter MacCallum Cancer Centre, Australia Review the methods to assess dosimetry following administration of Lu-177 or Y-90 based peptide therapies. Explain uses of dosimetry in research and in guiding clinical practice. Integrate how to utilise dosimetry in routine clinical practice of Theranostics.
0920 – 0940	PRRT Chemoradiotherapy A / Drof Michael Hefman, Centre for Cancer Imaging, Peter MacCallum Cancer Centre, Australia
Objectives	A/Prof Michael Hofman, Centre for Cancer Imaging, Peter MacCallum Cancer Centre, Australia 1. Review the range of radiosensitisers available for combining with peptide receptor radionuclide therapy (PRRT). 2. Explain advantages and disadvantates of adding radiosensitisers to PRRT.
0945 – 1020	ORAL PRESENTATION SESSION 3 (Jubilee Ballroom, Level 4)
1020 – 1040	Coffee & Tea Break / Trade Exhibition / Poster Viewing (Coleman Room, Level 4)
1040 – 1210	SCIENTIFIC SESSION 6: PROSTATE CANCER (Jubilee Ballroom, Level 4)
1040 – 1100	Molecular Imaging of Prostate Cancer
Objectives	 Dr Hossein Jadvar, Radiology, University of Southern California, USA Review the natural history of prostate cancer. Highlight the potential role of PET in the imaging evaluation of prostate cancer. Summarize the role of radiotheranostics in prostate cancer.
1105 – 1145	Overview on 68Ga-PSMA-Targeted Diagnosis and Therapy
Objectives	 Prof Irene Virgolini, UnivKlinik für Nuklearmedizin, Medical University Innsbruck, Austria Current status of PET/CT imaging in primary prostate cancer (primary staging). Current status of PET/CT imaging in recurrent prostate cancer (secondary staging). Current status of PSMA-directed radioligand therapy in prostate cancer (PRLT). Future of PRLT.
1150 – 1210	Use of PSMA-targeting Theranostics in Metastatic Prostate Cancer: Current Status
Objectives	 A/Prof Shuren Li, Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Austria To illustrate the development history of PSMA-targeting Theranostics and their advantages in management of prostate cancer. To become familiar with the clinical impact of PET/CT (and PET/MRI) using PSMA-targeting Diagnostics. To learn about the potentials of PSMA-targeting Theranostics for the treatment of prostate cancer recurrence and metastases.
1215 – 1315	Lunch Symposium / Trade Exhibition / Poster Viewing
1315 – 1450	(Coleman Room, Level 4) SCIENTIFIC SESSION 7: MIBG AND OTHER THERAPIES (Jubilee Ballroom, Level 4)
1315 – 1335	Making Old New Again: Approaches to Optimize MIBG Therapy in Neuroendocrine Cancers Dr Eftychia Koumarianou, Laboratory for Translational and Molecular Imaging (LTMI), Duke-NUS Medical School, Singapore
Objectives	 Review the concept of MIBG therapy optimization in the management of neuroendocrine cancers. Explain the advantages of increasing the membrane expression of the Norepinephrine Transporter (NET) in neuroendocrine cancers by pharmacological interventions to increase MIBG intracellular concentrations and thus enhance its therapeutic efficacy. Integrate the concept of imaging with "priming" of tumour cells for optimized therapeutic effect of MIBG in the clinical practice of Nuclear Medicine.
1340 – 1400	MIBG Clinical Approach and Updates
1405 – 1425	Dr Kelvin Loke, Nuclear Medicine & PET, Singapore General Hospital, Singapore Boron Neutron Capture Therapy of Malignant Tumour
Objectives	Prof Jun Hatazawa, Nuclear Medicine and Tracer Kinetics, Osaka University, Graduate School of Medicine, Japan 1. Review the concept of boron neutron capture therapy in the management of glioblastoma and other intractable tumors. 2. Explain the advantages of boron neutron capture therapy in management of glioblastoma is high specificity of cell killing effect to cancer cells. The disadvantage is set-up of in-hospital cyclotron. 3. Integrate the concept of molecular imaging and neutron therapy in the clinical practice of Nuclear Medicine.
1430 – 1450	Update of Radioactive Iodine Therapy for Differentiated Thyroid Cancer
Objectives	Prof Henry Bom, Nuclear Medicine, CNU Medical School, Korea 1. Attendees will learn the changing guidelines of radioactive iodine therapy for differentiated thyroid cancer (RAIT_DTC).

2. Attendees will learn the current practice of RAIT_DTC in Asia.

Coffee & Tea Break / Trade Exhibition / Poster Viewing

(Coleman Room, Level 4)

1455 – 1515

3. Attendees will learn the therapeutic options for radioactive iodine refractory thyroid cancer.



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1515 – 1600	SCIENTIFIC SESSION 8: RADIOPHARMACY (Jubilee Ballroom, Level 4)
1515 – 1535	Synthesis of the F-18 Tau PET agents Dr Daniel L. Yokell, Gordon Center for Medical Imaging, Massachusetts General Hospital/Harvard Medical School, USA
1540 – 1600	Tips, Tricks and Traps of Running a Radiopharmacy Dr Sidney Yu, Nuclear Medicine & PET, Singapore General Hospital, Singapore
1605 – 1730	ORAL PRESENTATION SESSION 4 (Jubilee Ballroom, Level 4)
1730 – 2200	NUCLEAR MEDICINE SOCIETY (SINGAPORE) ANNUAL ORATION & CONFERENCE DINNER (Jubilee Ballroom, Level 4)
1730 – 1830	Imaging in the Age of Precision Medicine: Some Alternative Facts Prof David Townsend, A*STAR-NUS Clinical Imaging Research Centre (CIRC), National University of Singapore, Singapore
1830 – 1900	Awards Ceremony
1900 – 2200	Cocktail & Conference Dinner
2200	End of Day 2

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DAY 3: SATURDAY, 19 AUGUST 2017

0800 - 0830	REGISTRATION
0800 0830	(Coleman Room Foyer, Level 4)
0830 – 1005	SCIENTIFIC SESSION 9: CLINICAL PET/CT
	(Jubilee Ballroom, Level 4)
0830 - 0850	PET in Genitourinary Carcinoma
	A/Prof Sze-Ting Lee, Molecular Imaging & Therapy, Austin Health, Australia
0855 – 0915	Hypoxia PET/CT Imaging in Lung Cancer
	Prof Tim Van den Wyngaert, Antwerp University Hospital, Belgium
Objectives	1. Review the concept of hypoxia as a major hallmark of cancer and the potential role of hypoxia imaging in the management of lung cancer.
	2. Explain the advantages/disadvantages of PET hypoxia imaging probes and recent developments in improving imaging characteristics in (pre)clinical lung
	cancer models.
	3. Integrate the concept of imaging biomarkers and optimal treatment selection in the clinical practice of Nuclear Medicine.
0920 – 0940	18F-NaF Bone Imaging
	Dr Fahad Marafi, President/Kuwait Nuclear Medicine Society, Kuwait
Objectives	1. Review the concept of F-18 Sodium Fluoride (NAF) PET/CT in the management of benign and malignant disease.
	2. Explain the advantages/disadvantages of F-18 NAF PET/CT versus conventional bone scintigraphy in management of benign and malignant disease.
0045 4005	3. Integrate the concept of New PET/CT radoopharmaceuticals and Imaging Techniques in the clinical practice of Nuclear Medicine.
0945 – 1005	PET in Gynecological Carcinoma A/Drof Sto Ting Loo Molecular Imaging & Thorapy, Austin Health, Australia
1010 1020	A/Prof Sze-Ting Lee, Molecular Imaging & Therapy, Austin Health, Australia
1010 – 1030	Coffee & Tea Break / Trade Exhibition (Coleman Room, Level 4)
1030 – 1205	SCIENTIFIC SESSION 10: OTHER IMAGINGS
1030 - 1203	(Jubilee Ballroom, Level 4)
1030 – 1050	MRI: Clinical Pearls for Nuclear Medicine
	A/Prof James Khoo, Oncologic Imaging, National Cancer Centre Singapore, Singapore
Objectives	1. Understanding the common MRI sequences.
	2. Recognizing the common MRI artifacts.
	3. MRI applications in Oncology.
1055 – 1115	SPECT Myocardial Blood Flow Quantitation
	A/Prof Felix Keng, Nuclear Cardiology, National Heart Centre, Singapore
1120 – 1140	SPECT-CT in Orthopaedics
01: .:	Prof Tim Van den Wyngaert, Antwerp University Hospital, Belgium
Objectives	1. Review the concept of radionuclide SPECT/CT bone imaging in the management of common orthopaedic conditions.
	2. Explain the advantages/disadvantages of hybrid bone SPECT/CT imaging, in particular in the management of recurrent symptoms after orthopaedic joint replacement or fusion surgery.
	3. Integrate the concept of hybrid bone SPECT/CT imaging as problem solving tool in the clinical practice of Nuclear Medicine.
1145 – 1205	F-18 Fluoro-borono-phenylalanine PET/CT
1143 1203	Prof Jun Hatazawa, Nuclear Medicine and Tracer Kinetics, Osaka University, Graduate School of Medicine, Japan
Objectives	1. Review the concept of fluoro-borono-phenylalanine PET in the management of cancer patients.
	2. Explain the advantages of FBPA PET in management of cancer patients is high cancer specific diagnosis beyond FDG PET, and disadvantage is low production by FBPA.
	3. Integrate FBPA PET derived anti-cancer drug development.
1210 – 1215	CLOSING ADDRESS
	(Jubilee Ballroom, Level 4)
1210 – 1215	Closing Remarks
	Dr Sean Yan, Organizing Co-Chair, Nuclear Medicine Update 2017
	End of Day 3