

International Conference on Integrated Medical Imaging in Cardiovascular Diseases (IMIC 2016)

IAEA Headquarters - Vienna, Austria, 10 - 14 October 2016

## OVERVIEW

## Monday, 10 October 2016

| The control State   Section   Sec    | Monday, 10 October 2016 |   |                          |   |  |  |
|--|-------------------------|---|--------------------------|---|--|--|
| Part      | Time                    |   |                          |   | Learning objectives  |  |
| Add Address of Mark Statistics    |                         | OPENING SESSION                                     |                          |   | -  |  |
| PRIMAY SESSON I - SETTING UP THE SECTION   MACCORDINATION   Chargement (Code - Note    | 09:00 - 09:30           | Opening remarks                                     | Gabriele Gii-Felgi, Peri | Aldo Malavasi, IAEA<br>Dazhu Yang. IAEA |  |  |
| Comparison   Com   |                         |   |                          | •                                       |  |  |
| Control   Cont   | DIFA                    | NADV CECCION L. CETTING LID THE CCENE               | IAEA Coordinator         |   | 1  |  |
| Accordance for Norganizations   Control of Norganization   | PLEI                    | NARY SESSION 1 - SETTING OF THE SCENE               | Chairperson              | Marcus Hacker, EANM                     |  |  |
| 1000 - 1030   mages   Geriol Maurier   CoPHEN/TIA BRIJAK   COPHE   | 09:30 - 10:00           |   | Oyere K. Onuma           | wнo                                     |  |  |
| Metal   Mark   Manual   Manu   | 10:00 - 10:30           | _   | Gerald Maurer            | MUV, Austria                            | , ,  |  |
| Chairperson   Board   Part     | 10:30 - 11:00           |   | COFFEE/TEA BREAK         |   |  |  |
| Majer schemic heart disease: role of SPECT and PET in ischemic heart disease: state of the art   | DIENA                   | BY SESSION II - ISCHEMIC HEADT DISEASE              | IAEA Coordinator         | Maurizio Dondi                          |  |  |
| 1100-1125   Fig. 1100   Per 1  | PLENA                   | INT SESSION II - ISCHEIVIIC HEART DISEASE           | Chairperson              | Joao Vitola, ASNC                       |  |  |
| 11:50 - 12:50 Imaging ischemic heart disease: role of Cardiac MRI (Para Bucciarelli Ducci EACV)  | 11:00 - 11:25           |   | Hein Verberne            | EANM                                    | 2. Examine new insights in myocardial perfusion imaging: future  |  |
| 11:50-12:15 Imaging ischemic heart disease: role of cardiac MMI over and above other imaging modalities 12:15-12:40 Imaging ischemic heart disease: role of cardiac MMI over and above other imaging modalities 12:15-12:40 Imaging ischemic heart disease: role of cardiac MMI over and above other imaging modalities 12:40-13:00 Imaging ischemic heart disease: role of echcardiography of the management of patients with suspected coronary artery disease 12:40-13:00 Synthesis and Q&A  12:40-13:00 Synthesis and Q&A  12:40-13:00 Imaging ischemic heart disease: role of echcardiography in the context of multimodally imaging in patients with suspected coronary artery disease  14:30-15:15 Nuclear cardiology in ischemic heart disease: MORKING LINCH SSSSION  14:30-15:15 Nuclear cardiology in ischemic heart disease: Mary Elison 15:15-16:00 CCTA and cardiac MMI in ischemic heart disease: Using actual case images for further interpretation and discourse  15:15-16:00 CCTA and cardiac MMI in ischemic heart disease: Using actual case images for further interpretation and discourse  16:00-17:00 Meet-the-Authors - Poster Review  16:00-17:00 Meet-the-Authors - Poster Review  17:00-19:00 Meet-the-Authors - Poster Review  17:00-19:00 Meet-the-Authors - Poster Review  17:00-19:00 Meet-the-Authors - Poster Review  18:AEA Coordinator  19:AEA Coordinator  19:AEA Coordinator  19:AEA Coordinator  10:AEA Coordinator  1 | 11:25 - 11:50           | Imaging ischemic heart disease: role of CCTA        | Florian Wolf             | ESR                                     | 2. Discuss the indications for using CCTA in the management of iscemic heart disease   |  |
| 12:15 - 12:20 maging ischemic heart disease: role of echocardiography  12:10 - 13:00 maging ischemic heart disease: role of echocardiography  12:10 - 13:00 maging ischemic heart disease: role of echocardiography  12:10 - 13:00 maging ischemic heart disease: role of echocardiography  12:10 - 13:00 maging ischemic heart disease: role of echocardiography  12:10 - 13:00 maging ischemic heart disease:  12:10 - 13:00 maging ischemic heart disease:  13:00 - 13:00 maging ischemic heart disease:  14:30 - 15:15 maging ischemic heart disease:  14:30 - 15:15 maging ischemic heart disease:  15:15 - 16:00 maging ischemic heart disease:  16:00 - 17:00 maging ischemic heart | 11:50 - 12:15           | Imaging ischemic heart disease: role of cardiac MRI | Chiara Bucciarelli Ducci | EACVI                                   | 2. Discuss the role of cardiac MRI over and above other imaging modalities   |  |
| 12:40   13:00   14:30   13:00   14:30   16:4   | 12:15 - 12:40           |   | Danilo Neglia            | EACVI                                   | coronary artery disease  2. Discuss the appropriate use of stress ecocardiography in the context of multimodality imaging in patients with suspected coronary              |  |
| READ WITH THE EXPERTS I  Chairperson  Analia Peix, Cuba  14:30 - 15:15  Nuclear cardiology in ischemic heart disease  Barry Elison  ANZSNM  Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardi | 12:40 - 13:00           | Synthesis and Q&A                                   |                          |   |  |  |
| Amalia Peix, Cuba   Amalia Peix, Cuba     14:30 - 15:15   Nuclear cardiology in ischemic heart disease   Barry Elison   ANZSNM   Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse     15:15 - 16:00   CCTA and cardiac MRI in ischemic heart disease   Florian Wolf   ESR   Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse     16:00 - 17:00   Meet-the-Authors - Poster Review   IAEA Coordinator   Thomas Pascual   1. Discuss the different application of cardiac imaging and its usefuliness in clinical management of patients with CVDs 2. Propose novel methodologies in medical imaging that would impact patient management     17:00 - 19:00   Welcome reception  | 13:00 - 14:30           |   |                          | ION                                     |  |  |
| 14:30 - 15:15 Nuclear cardiology in ischemic heart disease  Barry Elison  ANZSNM  Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  POSTER REVIEW - SESSION I  16:00 - 17:00  Meet-the-Authors - Poster Review  IAEA Coordinator  Thomas Pascual  1. Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  POSTER REVIEW - SESSION I  16:00 - 17:00  Meet-the-Authors - Poster Review  IAEA Coordinator  Thomas Pascual  1. Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Welcourse  Poster Review - SESSION II  1. Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  Discuss the role of CCTA and cardiac MRI in ischemic heart disease  Discuss the role of CCTA and cardiac |                         |   | IAEA Coordinator         |   |  |  |
| 15:15 - 16:00 CCTA and cardiac MRI in ischemic heart disease Florian Wolf ESR Discuss the role of CCTA and cardiac MRI in ischemic heart disease using actual case images for further interpretation and discourse  POSTER REVIEW - SESSION I  16:00 - 17:00 Meet-the-Authors - Poster Review IAEA Coordinator Thomas Pascual 1. Discuss the different application of cardiac imaging and its usefullness in clinical management of patients with CVDs 2. Propose novel methodologies in medical imaging that would impact patient management  Tuesday, 11 October 2016  Time Title Speaker Affiliation Learning objectives  BASICS I: HOW TO READ AN ECG AND PERFORM A STRESS TEST Nathan Better ANZSNM 2. Discuss how to perform different types of stress tests, including essential things to have in the room 3. Examines significant problems and "red lights" in the stress lab 4. Discuss how to incorporate the ECG and stress data into a nuclear medicine report - is it important?   |                         | READ WITH THE EXPERTS I                             | Chairperson              | Amalia Peix, Cuba                       |  |  |
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| 17:00 - 19:00 Welcome reception  Time Title Speaker Affiliation Learning objectives  8ASICS I: HOW TO READ AN ECG AND PERFORM A STRESS TEST Nathan Better ANZSNM STRESS TEST Nathan Better ANZSNM STRESS TEST Nathan Better ANZSNM IAEA Coordinator Rodolfo Nuñez Miller  17:00 - 19:00 Read and recognize significant abnormalities 2. Discuss how to read an ECG and recognize significant abnormalities 3. Examine significant problems and "red lights" in the stress lab 4. Discuss how to incorporate the ECG and stress data into a nuclear medicine report - is it important?  |                         |   |                          | POSTER REVIEW - SESSION I               |  |  |
| Time Title Speaker Affiliation Learning objectives  833 - 09:00 BASICS I: HOW TO READ AN ECG AND PERFORM A STRESS TEST Nation STRESS TEST Nation National Performance of the Company of th | 16:00 -17:00            | Meet-the-Authors - Poster Review                    | IAEA Coordinator         | Thomas Pascual                          |  |  |
| Time Title Speaker Affiliation Learning objectives  8330 - 09:00 BASICS I: HOW TO READ AN ECG AND PERFORM A STRESS TEST Nathan Better ANZSNM 1. Discuss how to read an ECG and recognize significant abnormalities 2. Discuss how to perform different types of stress tests, including essential things to have in the room 3. Examine significant problems and "red lights" in the stress lab 4. Discuss how to incorporate the ECG and stress data into a nuclear medicine report - is it important?  | 17:00 - 19:00           |   |                          | Welcome reception                       |  |  |
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| 8:30 - 09:00  BASICS I: HOW TO READ AN ECG AND PERFORM A STRESS TEST  Nathan Better  ANZSNM  2. Discuss how to perform different types of stress tests, including essential things to have in the room 3. Examine significant problems and "red lights" in the stress lab 4. Discuss how to incorporate the ECG and stress data into a nuclear medicine report - is it important?  PERMATY SESSION III - APPROPRIATE USE CRITERIA  IAEA Coordinator  Rodolfo Nuñez Miller  | Time                    | Title   | Speaker                  | Affiliation                             | Learning objectives  |  |
|  | 08:30 - 09:00           |   | Nathan Better            | ANZSNM                                  | Discuss how to perform different types of stress tests, including essential things to have in the room     Examine significant problems and "red lights" in the stress lab |  |
| Chairperson Barry Elison, ANZSNM   | DIENAD                  | Y SESSION III - APPROPRIATE LISE CRITERIA           | IAEA Coordinator         | Rodolfo Nuñez Miller                    |  |  |
|  | PLENAK                  | I JEJJION III - APPROPRIATE USE CRITERIA            | Chairperson              | Barry Elison, ANZSNM                    |  |  |

| 09:00 - 09:25 | Evidence-based medicine in cardiac imaging                 | Paolo Raggi              | Canada                      | 1. Examine the need for evidence-based medicine in cardiac imaging  |
|---------------|--|--------------------------|-----------------------------|---|
|               |  |                          | ***                         | 2. Recognize the limitations of evidence-based cardiac imaging  |
| 09:25 - 09:50 | Cardiovascular Diseases in the female population           | Leslee Shaw              | SCCT                        | Discuss the cardiovascular disease profile within the female population     Examine the appropriate diagnostic / imaging tests for this population  |
| 09:50 - 10:10 |  | COFFEE/TEA BREAK         |                             |   |
| PLENAR        | Y SESSION IV - CONGESTIVE HEART FAILURE                    | IAEA Coordinator         | Maurizio Dondi              |   |
|               |  | Chairperson              | Fernando Mut, ALASBIMN      |   |
| 10:10 - 10:35 | Imaging congestive heart failure: role of SPECT and PET    | Marcus Hacker            | EANM                        | Examine the role of SPECT and PET in the management of congestive heart failure     Discuss the indications for using SPECT and PET in the management of congestive heart failure   |
| 10:35 - 11:00 | Imaging congestive heart failure: role of CCTA             | Gianluca Pontone         | SCCT                        | Examine the role of CCTA in the management of congestive heart failure     Discuss the indications for using CCTA in the management of congestive heart failure   |
| 11:00 - 11:25 | Imaging congestive heart failure: role of cardiac MRI      | Chiara Bucciarelli Ducci | EACVI                       | Examine the indications of cardiac MRI in patients with heart failure     Discuss the principles of cardiac MRI image interpretation  |
| 11:25 - 11:50 | Imaging congestive heart failure: role of echocardiography | Bogdan Popescu           | EACVI                       | Examine the role of echocardiography in the management of congestive heart failure     Discuss the indications for using echocardiography in the management of congestive heart failure   |
| 11:50 - 12:10 | Synthesis and Q&A  |                          |                             |   |
| 12:10 - 13:30 |  | WORKING LUNCH SESS       | ION                         |   |
|               | FUNDAMENTALS I: CCTA                                       | IAEA Coordinator         | Thomas Pascual              |   |
|               | . C. C. MILITALO II. COTA                                  | Chairperson              | Leslee Shaw, SCCT           |   |
| 13:30 - 14:15 | Current status of CCTA in Cardiology                       | Michelle Williams        | sccт                        | 1. Discuss current research into the application of CT coronary angiography for patients with suspected coronary artery disease including stable chest pain and in the emergency department  2. Understand the advantages and limitations of CT coronary angiography in the diagnosis of suspected coronary artery disease  3. Examine the current status of CCTA in the management of CVDs  4. Discuss different CCTA protocols available for appropriate patients |
|               | READ WITH THE EXPERTS II                                   | IAEA Coordinator         | Enrique Estrada Lobato      |   |
|               | T  | Chairperson              | Victor Kalff, WFNMB         |   |
| 14:15 - 15:00 | Challenging Cases: CCTA and Cardiac MRI                    | Gianluca Pontone         | SCCT                        | Discuss the role of CCTA and cardiac MRI using actual case images for further interpretation and discourse  |
| 15:00 - 15:15 |  | COFFEE/TEA BREAK         |                             |   |
| 15:15 - 16:00 | Pitfalls and artefacts in nuclear cardiology               | Brian G. Abbott          | ASNC                        | Examine the common attenuation and reconstruction artifacts in SPECT and PET myocardial perfusion imaging     Discuss how image processing can improve image quality  |
|               |  |                          | POSTER REVIEW - SESSION II  |   |
| 16:00 - 17:00 | Meet-the-Authors - Poster Review                           | IAEA Coordinator         | Thomas Pascual              | Discuss the different application of cardiac imaging and its usefullness in clinical management of patients with CVDs     Propose novel methodologies in medical imaging that would impact patient management   |
|               |  |                          | Wednesday, 12 October 2016  |   |
| Time          | Title  | Speaker                  | Affiliation                 | Learning objectives   |
|               | BASICS II: GETTING FAMILIAR WITH                           | •                        | India                       | 1.Review the basics and indications of using interventional cardiology in the management of patients with CVDs  |
| 08:30 - 09:00 | INTERVENTIONAL CARDIOLOGY                                  | Ganesan Karthikeyan      |                             | Recognize common imaging findings seen in interventional cardiology studies   |
|               | FUNDAMENTALS II: CARDIAC MRI                               | IAEA Coordinator         | Ravi Kashyap                |   |
|               | TOTO ATTENTACE III. CARDIAC IVIII                          | Chairperson              | Marcus Hacker, EANM         |   |
| 09:00 - 09:45 | Current status of MRI in cardiology                        | Matthias Gutberlet       | ESR                         | Examine the current status of MRI in the management of CVDs     Discuss different MRI protocols available for appropriate patients  |
| 09:45 - 10:25 | Cardiac MRI: Case review                                   | Matthias Gutberlet       | ESR                         | Discuss the role of cardiac MRI using actual case images for further interpretation and discourse   |
| 10:25 - 10:40 |  | COFFEE/TEA BREAK         |                             |   |
|               | PLENARY SESSION V: WHAT'S NEW?                             | IAEA Coordinators        | Gian Luca Poli, Harry Delis |   |
|               | LEIVANT SESSION V. WITAT SINEW:                            | Chairperson              | Manuel Arreola, USA         |   |
| 10:40 - 11:10 | Software and hardware advances in nuclear cardiology       | Roger Fulton             | Australia                   | Discuss current software and hardware advances in nuclear cardiology and its advantages over current technology   |
| 11:10 - 11:40 | Software and hardware for CCTA                             | Isabel Castellano        | UK                          | Integrate an overview of the CT technical developments that underpin coronary CT angiography     Discuss the impact of these developments on image quality and radiation dose to the patient  |
| 11:40 - 12:10 | PET/CT or PET/MR: Who should PET partner with?             | Thomas Beyer             | MUV, Austria                | Discuss the quantitative nature of PET imaging in either modality     Examine key applications and advantages/disadvantages of each modality     Discuss protocol standardization and key elements of high quality clinical imaging protocols     Integrate the principles of PET/CT and PET/MRI into clinical practice   |
| 12:10 - 13:30 |  | LUNCH BREAK              |                             |   |
| PLENA         | RY SESSION VI: RADIOPHARMACY UPDATE                        | IAEA Coordinator         | Joao Osso                   |   |
|               | 1  | Chairperson              | Sally Schwarz, SNMMI        | 4 Disput the support would describe described and described and described   |
| 13:30 - 13:50 | OECD and the supply of medical radioisotopes               | Kevin Charlton           | OECD-NEA                    | Discuss the current market demand and projected production capacity of 99Mo supply     Discuss gaining awareness about the 99Mo supply challenge in 2016 and beyond     Examine the range of measures available for mitigating future supply risk and the challenges of implementing them, including the NRU reactor 99Mo contingency capacity  |
|               |  |                          |                             | and any time inter-control points containing capacity   |

|   |   |   |  | Discuss what constitutes good manufacturing practice  |  |  |
|---|---|---|--|---|--|--|
| 13:50 - 14:10   | Good manufacturing practice in the US applied to the production of radiopharmaceuticals   | Sally Schwarz   | SNMMI  | Examine the US FDA regulatory requirements for the production of FDA Approved PET and SPECT radiopharmaceuticals     Discuss the production of clinical research PET and SPECT radiopharmaceuticals under an Investigational New Drug Application (IND)   |  |  |
| 14:10- 14:30  | Overview of SPECT and PET tracers for cardiology  | Adriano Duatti  | Italy  | Discuss conventional and novel SPECT tracers for MPI     Examine available PET tracers for MPI     Discuss available SPECT and PET tracers for studying cardiac neurotransmission     Examine advantages and pitfalls of current imaging agents     Discuss the cost-effectiveness and competition with other imaging modalities     Examine future perspectives in the development of tracers for nuclear cardiology   |  |  |
| POSTER REVIEW - SESSION III   |   |   |  |   |  |  |
| 14:30 - 15:30   | Meet-the-Authors - Poster Review  | IAEA Coordinator  | Thomas Pascual   | Discuss the different application of cardiac imaging and its usefullness in clinical management of patients with CVD     Propose novel methodologies in medical imaging that would impact patient management  |  |  |
| Thursday, 13 October 2016   |   |   |  |   |  |  |
| Time  | Title   | Speaker   | Affiliation  | Learning objectives   |  |  |
| 08:30 - 09:00   | BASICS III: GETTING FAMILIAR WITH CT CORONARY<br>ANGIOGRAPHY  | Michelle Williams   | SCCT   | 1.Understand the basics of how CT coronary angiography images are acquired including methods to optimize image quality and reduce radiation     2.Discuss how to assess CT coronary angiography images and communicate results     3.Review the basics and indications of using CT coronary angiography in the management of patients with CVD     4.Recognize common imaging findings seen in CT coronary angiography studies  |  |  |
| DI ENIADY SESSIO  | ON VII: OTHER INDICATIONS FOR CARDIAC IMAGING   | IAEA Coordinator  | Rodolfo Nuñez Miller   |   |  |  |
| FEEIVART SESSIO   | ON VII. OTHER INDICATIONS FOR CARDIAC IMAGING   | Chairperson   | Sharmila Dorbala, SNMMI  |   |  |  |
| 09:00 - 09:25   | Nuclear cardiology in evaluation of coronary flow reserve and implantable device infections   | Denis Agostini  | EANM   | Discuss how to use cardiac MIBG scintigraphy in heart failure to obtain a prognostic index     Discuss how to use cardiac 99mTc-DPD scintigraphy to stratify cardiac amyloidosis  |  |  |
| 09:25 - 09:50   | Nuclear cardiology in evaluation of sympathetic innervation   | Victor Kalff  | WFNMB  | Define current need for assessment of cardiac sympathetic innervation.     Outline how current conventional planar & SPECT/CT tracers as well as PET/CT radiotracer studies are performed.     Define how these radiotracers are being used/ evaluated in disorders of cardiac innervation.     Discuss current status of the clinical role of nuclear cardiology in assessing cardiac sympathetic innervation.     Discuss current status of the research role of nuclear cardiology in assessing cardiac sympathetic innervation.   |  |  |
| 09:50 - 10:15   |   |   |  |   |  |  |
|   | Other indications for cardiac MRI   | Matthias Gutherlet  | FSR  | Review other indications for cardiac MRI and its relevance in clinical practice   |  |  |
| 10:15 -10:35  | Other indications for cardiac MRI   | Matthias Gutberlet<br>COFFEE/TEA BREAK  | ESR  | Review other indications for cardiac MRI and its relevance in clinical practice   |  |  |
| 10:15 -10:35  | Other indications for cardiac MRI  SION VIII - ETHICS, LEADERSHIP, EDUCATION AND  |   |  | Review other indications for cardiac MRI and its relevance in clinical practice   |  |  |
| 10:15 -10:35<br>PLENARY SES   |   | COFFEE/TEA BREAK  |  | Review other indications for cardiac MRI and its relevance in clinical practice   |  |  |
| 10:15 -10:35<br>PLENARY SES   | SION VIII - ETHICS, LEADERSHIP, EDUCATION AND   | COFFEE/TEA BREAK IAEA Coordinator   | Thomas Pascual   | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained   |  |  |
| 10:15 -10:35 PLENARY SES CHALL  | SION VIII - ETHICS, LEADERSHIP, EDUCATION AND ENGES IN NUCLEAR CARDIOLOGY PRACTICE  Ethical issues faced in nuclear cardiology: Principles  | COFFEE/TEA BREAK<br>IAEA Coordinator<br>Chairperson   | Thomas Pascual<br>Jun Hatazawa, ARCCNM                                       | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice   |  |  |
| 10:15 -10:35<br>PLENARY SES<br>CHALL<br>10:35 - 10:55   | SION VIII - ETHICS, LEADERSHIP, EDUCATION AND ENGES IN NUCLEAR CARDIOLOGY PRACTICE  Ethical issues faced in nuclear cardiology: Principles and case discussion  | COFFEE/TEA BREAK  IAEA Coordinator  Chairperson  Andrew Ross  | Thomas Pascual Jun Hatazawa, ARCCNM  CANM, Canada                            | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained  1. Discuss leadership themes for imaging   |  |  |
| 10:15 -10:35 PLENARY SES CHALL  10:35 - 10:55   | Ethical issues faced in nuclear cardiology: Principles and case discussion  Leadership: Case in point   | COFFEE/TEA BREAK IAEA Coordinator Chairperson  Andrew Ross  Sobhan Vinjamuri  | Thomas Pascual Jun Hatazawa, ARCCNM  CANM, Canada  BNMS                      | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained  1. Discuss leadership themes for imaging 2. Examine motivations for decision making as a leader  1. Examine the challenging issues of education in nuclear cardiology 2. Discuss the case-based approach for education of nuclear cardiology   |  |  |
| 10:15 -10:35 PLENARY SES CHALL  10:35 - 10:55  10:55 - 11:15  | Ethical issues faced in nuclear cardiology: Principles and case discussion  Leadership: Case in point  Education: Case in point   | COFFEE/TEA BREAK IAEA Coordinator Chairperson  Andrew Ross  Sobhan Vinjamuri  Henry Bom   | Thomas Pascual Jun Hatazawa, ARCCNM  CANM, Canada  BNMS  AOFNMB              | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained  1. Discuss leadership themes for imaging 2. Examine motivations for decision making as a leader  1. Examine the challenging issues of education in nuclear cardiology 2. Discuss the case-based approach for education of nuclear cardiology 3. Discuss how to collaborate with referrers  1. Examine the challenges in terms of training and education with respect to emerging technologies in nuclear cardiology  |  |  |
| 10:15 - 10:35  PLENARY SES CHALL  10:35 - 10:55  10:55 - 11:15  11:15 - 11:35   | Ethical issues faced in nuclear cardiology: Principles and case discussion  Leadership: Case in point  Education: Case in point  New challenges in nuclear cardiology practice                                      | COFFEE/TEA BREAK IAEA Coordinator Chairperson  Andrew Ross  Sobhan Vinjamuri  Henry Bom  Brian G. Abbott  | Thomas Pascual Jun Hatazawa, ARCCNM  CANM, Canada  BNMS  AOFNMB  ASNC        | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained  1. Discuss leadership themes for imaging 2. Examine motivations for decision making as a leader  1. Examine the challenging issues of education in nuclear cardiology 2. Discuss the case-based approach for education of nuclear cardiology 3. Discuss how to collaborate with referrers  1. Examine the challenges in terms of training and education with respect to emerging technologies in nuclear cardiology 2. Discuss trends in utilization, appropriate use, and reimbursement for nuclear cardiology procedures 1. Discuss the importance of research in today's evidence based clinical practice 2. Examine the different types of studies that can be done and their main components 3. Discuss the importance of copy writes and plagiarism  |  |  |
| 10:15 - 10:35  PLENARY SES CHALL  10:35 - 10:55  10:55 - 11:15  11:15 - 11:35  11:35 - 11:55  | Ethical issues faced in nuclear cardiology: Principles and case discussion  Leadership: Case in point  Education: Case in point  New challenges in nuclear cardiology practice  Research from a question to a paper | COFFEE/TEA BREAK IAEA Coordinator Chairperson  Andrew Ross  Sobhan Vinjamuri  Henry Bom  Brian G. Abbott  Naima Al-Bulushi  WORKING LUNCH SESS                  | Thomas Pascual Jun Hatazawa, ARCCNM  CANM, Canada  BNMS  AOFNMB  ASNC  ARSNM | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained  1. Discuss leadership themes for imaging 2. Examine motivations for decision making as a leader  1. Examine the challenging issues of education in nuclear cardiology 2. Discuss the case-based approach for education of nuclear cardiology 3. Discuss how to collaborate with referrers  1. Examine the challenges in terms of training and education with respect to emerging technologies in nuclear cardiology 2. Discuss trends in utilization, appropriate use, and reimbursement for nuclear cardiology procedures 1. Discuss the importance of research in today's evidence based clinical practice 2. Examine the different types of studies that can be done and their main components 3. Discuss the importance of copy writes and plagiarism  |  |  |
| 10:15 - 10:35 PLENARY SES CHALL  10:35 - 10:55  10:55 - 11:15  11:15 - 11:35  11:35 - 11:55  11:55-12:15  12:15 - 12:30 12:30 - 14:00 | Ethical issues faced in nuclear cardiology: Principles and case discussion  Leadership: Case in point  Education: Case in point  New challenges in nuclear cardiology practice  Research from a question to a paper | COFFEE/TEA BREAK IAEA Coordinator Chairperson  Andrew Ross  Sobhan Vinjamuri  Henry Bom  Brian G. Abbott  Naima Al-Bulushi  WORKING LUNCH SESS IAEA Coordinator | Thomas Pascual Jun Hatazawa, ARCCNM  CANM, Canada  BNMS  AOFNMB  ASNC  ARSNM | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained  1. Discuss leadership themes for imaging 2. Examine motivations for decision making as a leader  1. Examine the challenging issues of education in nuclear cardiology 2. Discuss the case-based approach for education of nuclear cardiology 3. Discuss how to collaborate with referrers  1. Examine the challenges in terms of training and education with respect to emerging technologies in nuclear cardiology 2. Discuss trends in utilization, appropriate use, and reimbursement for nuclear cardiology procedures 1. Discuss the importance of research in today's evidence based clinical practice 2. Examine the different types of studies that can be done and their main components 3. Discuss the importance of copy writes and plagiarism  |  |  |
| 10:15 - 10:35 PLENARY SES CHALL  10:35 - 10:55  10:55 - 11:15  11:15 - 11:35  11:35 - 11:55  11:55-12:15  12:15 - 12:30 12:30 - 14:00 | Ethical issues faced in nuclear cardiology: Principles and case discussion  Leadership: Case in point  Education: Case in point  New challenges in nuclear cardiology practice  Research from a question to a paper | COFFEE/TEA BREAK IAEA Coordinator Chairperson  Andrew Ross  Sobhan Vinjamuri  Henry Bom  Brian G. Abbott  Naima Al-Bulushi  WORKING LUNCH SESS                  | Thomas Pascual Jun Hatazawa, ARCCNM  CANM, Canada  BNMS  AOFNMB  ASNC  ARSNM | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained  1. Discuss leadership themes for imaging 2. Examine motivations for decision making as a leader  1. Examine the challenging issues of education in nuclear cardiology 2. Discuss the case-based approach for education of nuclear cardiology 3. Discuss how to collaborate with referrers  1. Examine the challenges in terms of training and education with respect to emerging technologies in nuclear cardiology 2. Discuss trends in utilization, appropriate use, and reimbursement for nuclear cardiology procedures  1. Discuss the importance of research in today's evidence based clinical practice 2. Examine the different types of studies that can be done and their main components 3. Discuss the importance of copy writes and plagiarism 4. Examine the structure and components of a good research verse a weak one |  |  |
| 10:15 - 10:35 PLENARY SES CHALL  10:35 - 10:55  10:55 - 11:15  11:15 - 11:35  11:35 - 11:55  11:55-12:15  12:15 - 12:30 12:30 - 14:00 | Ethical issues faced in nuclear cardiology: Principles and case discussion  Leadership: Case in point  Education: Case in point  New challenges in nuclear cardiology practice  Research from a question to a paper | COFFEE/TEA BREAK IAEA Coordinator Chairperson  Andrew Ross  Sobhan Vinjamuri  Henry Bom  Brian G. Abbott  Naima Al-Bulushi  WORKING LUNCH SESS IAEA Coordinator | Thomas Pascual Jun Hatazawa, ARCCNM  CANM, Canada  BNMS  AOFNMB  ASNC  ARSNM | 1. Examine ethics as it relates to nuclear cardiology practice 2. Discuss specific issues which may be faced in the day to day practice 3. Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained  1. Discuss leadership themes for imaging 2. Examine motivations for decision making as a leader  1. Examine the challenging issues of education in nuclear cardiology 2. Discuss the case-based approach for education of nuclear cardiology 3. Discuss how to collaborate with referrers  1. Examine the challenges in terms of training and education with respect to emerging technologies in nuclear cardiology 2. Discuss trends in utilization, appropriate use, and reimbursement for nuclear cardiology procedures 1. Discuss the importance of research in today's evidence based clinical practice 2. Examine the different types of studies that can be done and their main components 3. Discuss the importance of copy writes and plagiarism  |  |  |

| 14:20 - 14:40   | Appropriate use criteria   | Sharmila Dorbala  | SNMMI   | Discuss multimodality appropriate usecriteria in the evaluation and management of individuals with stable ischemic heart disease     Examine the various tools available for the evaluation of appropriate use criteria of radionuclide myocardial perfusion imaging  |
|---|--|---|---|---|
| 14:40 - 15:00   | 8 best practices as recommended by INCAPS  | Joao Vitola   | ASNC  | Examine opportunities for optimization of nuclear cardiology protocols and improving practice     Discuss patient safety and compliance with ALARA principle  |
| 15:00 - 15:20   | Quality management and clinical audits in nuclear medicine   | Maurizio Dondi  | IAEA  | I. Identifty the principles of Quality Management (QM) systems and Clinical Audits (CA)     Recognize the added value of implementing QM and CA to improve the quality of clinical practice   |
| 15:20 - 15:30   | Synthesis and Q&A  |   |   |   |
| 15:30 - 15:45   |  | COFFEE/TEA BREAK  |   |   |
| PARAI   | LLEL SESSION - READ WITH THE EXPERTS III   | IAEA Coordinator  | Enrique Estrada Lobato  |   |
|   | 1- 1 11 11 11 11 11 11 11 11 11 11 11 11   | Chairperson   | Vikram Lele, AOFNMB   |   |
| 15:45 - 16:25   | Read with the expert: Interesing cases in nuclear cardiology   | Jean Luc Urbain   | CANM, Canada  | Discuss the role of nuclear cardiology using actual case images for further interpretation and discourse  |
| 16:25 - 17:00   | Read with the expert: Reporting nuclear cardiology studies   | Jerry Obaldo  | ARCCNM  | Discuss how to write structured nuclear cardiology scan reports     Recognize common pitfalls in nuclear cardiology scan reports  |
| В   | PARALLEL SESSION - MEDICAL PHYSICS   | IAEA Coordinators   | Gian Luca Poli, Harry Delis   |   |
| P   | AINTELL SESSION - INICUICAL PRISICS  | Chairperson   | Hilde Bosmans, Belgium  |   |
| 15:45 - 17:00   | IAEA Doctoral Coordinated Research Projects on<br>Advances in Medical Imaging Techniques   |   |   |   |
| D/  | ARALLEL SESSION - RADIOPHARMACY  | IAEA Coordinator  | Joao Osso   |   |
|   | ANALLE SESSION - NADIOFILANIMACI   | Chairperson   | Adriano Duatti, Italy   |   |
| 15:45 - 16:10   | Cardiac radiopharmaceutical development, including peptides and nanoparticles  | Sally Schwarz   | SNMMI   | Discuss new areas of cardiac radiopharmaceutical development including peptides and nanoparticles     Examine applications for cardiac radiopharmaceuticals such as myocardial perfusion imaging and atherosclerosis     Discuss cardiac imaging agents moving towards commercialization  |
| 16:10 - 16:35   | 82Sr production using high energy cyclotron  | Adriano Duatti  | Italy   | 1. Discuss possible nuclear routes to Sr-82 production 2. Discuss current production and separation methods of Sr-82 3. Examine the current global network of high-energy accelerators for the production of Sr-82 4. Discuss the issue of good-manufacturing practice with Sr-82 production (GMP) 5. Examine the role of the US Department of Energy (DOE) and Nordion 6. Discuss potential future technological developments of high-energy, high-power targets   |
| 16:35 - 17:00   | IAEA assistance in RI production and supply: <sup>99</sup> Mo case   | Joao Osso   | IAEA  | Recognize the importance of Mo-99 and the issues related to Mo-99 supply     Discuss alternative methods for the production of Mo-99 and/or Tc-99m     Seamine the role of IAEA in supporting Mo-99 and/or Tc-99m production by Member States   |
|   |  |   | Friday, 14 October 2016   | To Examine the fole of the first appointing the 33 and of the 33th production by member states  |
|   |  |   | 111day, 14 October 2010   |   |
| Time  | Title  | Speaker   | Affiliation   | Learning objectives   |
| Time<br>08:30 - 09:00   | Title  BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR CARDIOLOGY REPORT   | <b>Speaker</b><br>Vikram Lele   | •   | Learning objectives  1. Recognize essential elements of a good nuclear cardiology report  2. Discuss all the data which need to be incorporated in an excellent report  3. Examine things that must be included, should be included and may be included  4. Discuss format and sequence of an excellent Nuclear Cardiology report   |
| 08:30 - 09:00   | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR  | ·   | Affiliation   | Recognize essential elements of a good nuclear cardiology report     Discuss all the data which need to be incorporated in an excellent report     Examine things that must be included, should be included and may be included   |
| 08:30 - 09:00   | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR<br>CARDIOLOGY REPORT   | Vikram Lele   | Affiliation  AOFNMB   | 1. Recognize essential elements of a good nuclear cardiology report 2. Discuss all the data which need to be incorporated in an excellent report 3. Examine things that must be included, should be included and may be included 4. Discuss format and sequence of an excellent Nuclear Cardiology report   |
| 08:30 - 09:00   | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR CARDIOLOGY REPORT SION IX: THE (HE)ART OF IMAGING - TECHNIQUES   | Vikram Lele  IAEA Coordinator   | Affiliation  AOFNMB  Diana Paez   | Recognize essential elements of a good nuclear cardiology report     Discuss all the data which need to be incorporated in an excellent report     Examine things that must be included, should be included and may be included   |
| 08:30 - 09:00  PLENARY SESS   | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR CARDIOLOGY REPORT  SION IX: THE (HE)ART OF IMAGING - TECHNIQUES MATTER   | Vikram Lele  IAEA Coordinator  Chairperson  | Affiliation  AOFNMB  Diana Paez Leslee Shaw, SCCT                                       | 1. Recognize essential elements of a good nuclear cardiology report 2. Discuss all the data which need to be incorporated in an excellent report 3. Examine things that must be included, should be included and may be included 4. Discuss format and sequence of an excellent Nuclear Cardiology report  1. Examine how to recognize artefacts and pitfalls in myocardial perfusion imaging 2. Discuss how artefacts and pitfalls interfere with quantification in myocardial perfusion imaging 3. Recognize how artefacts and pitfalls impact on diagnostic process and risk stratification 1. Discuss the quantitation of perfusion and function - how and when to do it 2. Discuss a comparison within and between patients  |
| 08:30 - 09:00  PLENARY SESS 09:00 - 09:30   | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR CARDIOLOGY REPORT  SION IX: THE (HE)ART OF IMAGING - TECHNIQUES MATTER  Not all that shines is gold  | Vikram Lele  IAEA Coordinator  Chairperson  Raffaele Giubbini   | Affiliation  AOFNMB  Diana Paez  Leslee Shaw, SCCT  Italy                               | 1. Recognize essential elements of a good nuclear cardiology report 2. Discuss all the data which need to be incorporated in an excellent report 3. Examine things that must be included, should be included and may be included 4. Discuss format and sequence of an excellent Nuclear Cardiology report  1. Examine how to recognize artefacts and pitfalls in myocardial perfusion imaging 2. Discuss how artefacts and pitfalls interfere with quantification in myocardial perfusion imaging 3. Recognize how artefacts and pitfalls impact on diagnostic process and risk stratification 1. Discuss the quantitation of perfusion and function - how and when to do it  |
| 08:30 - 09:00  PLENARY SESS  09:00 - 09:30  09:30 - 10:00                               | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR CARDIOLOGY REPORT  SION IX: THE (HE)ART OF IMAGING - TECHNIQUES MATTER  Not all that shines is gold  It's all in numbers   | Vikram Lele  IAEA Coordinator Chairperson  Raffaele Giubbini  Nathan Better                                 | Affiliation  AOFNMB  Diana Paez Leslee Shaw, SCCT Italy  ANZSNM                         | 1. Recognize essential elements of a good nuclear cardiology report 2. Discuss all the data which need to be incorporated in an excellent report 3. Examine things that must be included, should be included and may be included 4. Discuss format and sequence of an excellent Nuclear Cardiology report  1. Examine how to recognize artefacts and pitfalls in myocardial perfusion imaging 2. Discuss how artefacts and pitfalls interfere with quantification in myocardial perfusion imaging 3. Recognize how artefacts and pitfalls impact on diagnostic process and risk stratification 1. Discuss the quantitation of perfusion and function - how and when to do it 2. Discuss a comparison within and between patients 3. Examine how essential is quantitation and what to include in the report 1. Discuss the current PET based molecular imaging research in cardiovascular diseases  |
| 08:30 - 09:00  PLENARY SESS  09:00 - 09:30  09:30 - 10:00  10:00 - 10:30  10:30 - 11:00 | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR CARDIOLOGY REPORT  SION IX: THE (HE)ART OF IMAGING - TECHNIQUES MATTER  Not all that shines is gold  It's all in numbers  PET to the future  | Vikram Lele  IAEA Coordinator Chairperson  Raffaele Giubbini  Nathan Better                                 | Affiliation  AOFNMB  Diana Paez Leslee Shaw, SCCT Italy  ANZSNM                         | 1. Recognize essential elements of a good nuclear cardiology report 2. Discuss all the data which need to be incorporated in an excellent report 3. Examine things that must be included, should be included and may be included 4. Discuss format and sequence of an excellent Nuclear Cardiology report  1. Examine how to recognize artefacts and pitfalls in myocardial perfusion imaging 2. Discuss how artefacts and pitfalls interfere with quantification in myocardial perfusion imaging 3. Recognize how artefacts and pitfalls impact on diagnostic process and risk stratification 1. Discuss the quantitation of perfusion and function - how and when to do it 2. Discuss a comparison within and between patients 3. Examine how essential is quantitation and what to include in the report 1. Discuss the current PET based molecular imaging research in cardiovascular diseases  |
| 08:30 - 09:00  PLENARY SESS  09:00 - 09:30  09:30 - 10:00  10:00 - 10:30  10:30 - 11:00 | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR CARDIOLOGY REPORT  SION IX: THE (HE)ART OF IMAGING - TECHNIQUES MATTER  Not all that shines is gold  It's all in numbers  PET to the future  COFFEE/TEA BREAK                                    | Vikram Lele  IAEA Coordinator Chairperson  Raffaele Giubbini  Nathan Better  Sharmila Dorbala               | Affiliation  AOFNMB  Diana Paez  Leslee Shaw, SCCT  Italy  ANZSNM  SNMMI                | 1. Recognize essential elements of a good nuclear cardiology report 2. Discuss all the data which need to be incorporated in an excellent report 3. Examine things that must be included, should be included and may be included 4. Discuss format and sequence of an excellent Nuclear Cardiology report  1. Examine how to recognize artefacts and pitfalls in myocardial perfusion imaging 2. Discuss how artefacts and pitfalls interfere with quantification in myocardial perfusion imaging 3. Recognize how artefacts and pitfalls impact on diagnostic process and risk stratification 1. Discuss the quantitation of perfusion and function - how and when to do it 2. Discuss a comparison within and between patients 3. Examine how essential is quantitation and what to include in the report 1. Discuss the current PET based molecular imaging research in cardiovascular diseases 2. Examine ongoing molecular imaging studies in cardiovascular diseases  Synthesize the relevant issues discussed on the role of integrated medical imaging in the management of patients with |
| 08:30 - 09:00  PLENARY SES:  09:00 - 09:30  09:30 - 10:00  10:00 - 10:30  PLE           | BASICS IV: HOW TO MAKE AN EXCELLENT NUCLEAR CARDIOLOGY REPORT  SION IX: THE (HE)ART OF IMAGING - TECHNIQUES MATTER  Not all that shines is gold  It's all in numbers  PET to the future  COFFEE/TEA BREAK ENARY SESSION X - CLOSING CEREMONY | Vikram Lele  IAEA Coordinator Chairperson Raffaele Giubbini Nathan Better Sharmila Dorbala IAEA Coordinator | Affiliation  AOFNMB  Diana Paez Leslee Shaw, SCCT  Italy  ANZSNM  SNMMI  Thomas Pascual | 1. Recognize essential elements of a good nuclear cardiology report 2. Discuss all the data which need to be incorporated in an excellent report 3. Examine things that must be included, should be included and may be included 4. Discuss format and sequence of an excellent Nuclear Cardiology report  1. Examine how to recognize artefacts and pitfalls in myocardial perfusion imaging 2. Discuss how artefacts and pitfalls interfere with quantification in myocardial perfusion imaging 3. Recognize how artefacts and pitfalls impact on diagnostic process and risk stratification 1. Discuss the quantitation of perfusion and function - how and when to do it 2. Discuss a comparison within and between patients 3. Examine how essential is quantitation and what to include in the report 1. Discuss the current PET based molecular imaging research in cardiovascular diseases 2. Examine ongoing molecular imaging studies in cardiovascular diseases  |