International Conference on

Integrated Medical Imaging in Cardiovascular Diseases

(IMIC 2016)

Vienna, Austria 10–14 October 2016





IAEA-CN-243

Organized by the IAEA



In cooperation with:



American Society of Nuclear Cardiology (ASNC)



Arabic Society of Nuclear Medicine (ARSNM)



Asian Regional Cooperative Council for Nuclear Medicine (ARCCNM)



Asia Oceania Federation of Nuclear Medicine and Biology (AOFNMB)



Australian and New Zealand Society of Nuclear Medicine (ANZSNM)



British Nuclear Medicine Society (BNMS)



Canadian Association of Nuclear Medicine (CANM)





European Association of Cardiovascular Imaging (EACVI)



European Association of Nuclear Medicine (EANM)



European Society of Radiology (ESR)



Latin American Association of Societies of Biology and Nuclear Medicine (ALASBIMN)



Medical University of Vienna (MUV)



Nuclear Energy Agency of the Organisation for Economic Co-operation and Development (OECD-NEA)



Society of Cardiovascular Computed Tomography (SCCT)



Society of Nuclear Medicine and Molecular Imaging (SNMMI)



World Federation of Nuclear Medicine and Biology (WFNMB)



World Health Organization (WHO)

MOBILE CONFERENCE APPLICATION

(for smart phones and tablets)

Android



iPhone



Participants are encouraged to download the conference application (App) IAEA Conferences and Meetings available at Google Play and the iTunes Store. The QR codes above will take you right there.

Once you have installed the App simply select this conference.

The App allows you to:

- put together your own schedule and view up-to-date programme information;
- view ppt presentations of those speakers who have permitted their release, after the presentation;
- interact with other participants using the App;
- submit questions/comments during the sessions.

Please provide us with your feedback using the evaluation form available on the App.

If you have questions or require assistance on the App please contact the Conference Registration Desk.

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Exhibitions:

V Jordanovska

Location of the Conference:

International Atomic Energy Agency Vienna International Centre (VIC) M Building

Board Room A 1400 Vienna, Austria Tel.: (+43 1) 2600 Fax: (+43 1) 2600 7

Working Language: English

Resolutions: No resolutions may be submitted for

consideration on any subject; no votes

will be taken.

TIMETABLE			15:00–15:15	Coffee/TeaBreak	
Sunday, 9 Oc	tober 2016		15:15–16:00	Read with the	Board Room A
16:00–18:00	Advanced Registration	Gate 1		Experts II	
Monday, 10 O 08:00	October 2016 Collection of UN Pass	Gate 1	16:00–17:00	Poster Review: Session II	(See page 8 for details)
08:00	Registration and	M Building	Wednesday, 1	2 October 2016	
	Distribution of Conference Material	-	08:30-09:00	Basics II: Getting Familiar with Interventional	Board Room A
09:00-09:30	Opening Session	Board Room A		Cardiology	
09:30-10:30	Plenary Session I: Setting Up the Scene	Board Room A	09:00-10:25	Fundamentals II: Cardiac MRI	Board Room A
10:30–11:00	Coffee/TeaBreak		10:25–10:40	Coffee/TeaBreak	
11:00–13:00	Plenary Session II:	Board Room A	10:40-12:10	Plenary Session V: What's New?	Board Room A
12:00 14:20			12:10-13:30	Lunch Break	
13:00–14:30 14:30–16:00	Working Lunch Read with the Experts I	Board Room A	13:30–14:30	Plenary Session VI: Radiopharmacy Update	Board Room A
16:00–17:00	Poster Review: Session I	(See page 8 for details)	14:30–15:30	Poster Review: Session III	(See page 8 for details)
17:00–19:00	Welcome Reception	M Building, MOE	Thursday, 13	October 2016	
	•	W Bullang, WCL	08:30-09:00	Basics III: Getting Familiar with CT	Board Room A
Tuesday, 11 (Dctober 2016 Basics I: How to Read	Board Room A		Coronary Angiography	
00.00-00.00	an ECG and Perform a Stress Test		09:00–10:15	Plenary Session VII: Other Indications for	Board Room A
09:00-09:50	Plenary Session III: Appropriate Use Criteria	Board Room A	10:15–10:35	Cardiac Imaging Coffee/Tea Break	
09:50-10:10	Coffee/TeaBreak		10:35–12:30	Plenary Session VIII:	Board Room A
10:10–12:10	Plenary Session IV: Congestive Heart Failure	Board Room A		Ethics, Leadership, Education and Challenges in Nuclear Cardiology Practice	
12:10–13:30	Working Lunch		12:30–14:00	Working Lunch	
13:30–14:15	Fundamentals I: CCTA	Board Room A	14:00–15:30	Fundamentals III: Safety and Quality	Board Room A

15:45–17:00	Parallel Session: Read with the Experts III	Board Room A
15:45–17:00	Parallel Session: Medical Physics	Room MOE10
15:45–17:00	Parallel Session: Radiopharmacy	Room M4
Friday, 14 Oct	tober 2016	
08:30-09:00	Basics IV: How to Make an Excellent Nuclear Cardiology Report	Board Room A
9:00–10:30	Plenary Session IX: The (He)Art of Imaging – Techniques Matter	Board Room A
10:30–11:00	Coffee/TeaBreak	
11:00-13:00	Plenary Session X: Closing Ceremony	Board Room A

POSTERS

All posters presented at the IMIC 2016 will be eligible for poster awards provided that they are presented in person during the poster sessions.

A selection committee has been appointed by the IAEA to review the posters on display at the conference, attend the poster presentations, and, at the conclusion of the conference, select a predetermined number of posters to receive an award.

The Poster Award session will take place between 11:45–12:15 on Friday, 14 October 2016.

All posters will be displayed from Monday to Wednesday on the ground floor and first floor and at the back of BRB/M1. Please see Poster Review Session I, II and III to see which posters will be reviewed when.

POSTER REVIEW SESSIONS

Mon, 10 October 2016

16:00-17:00

Ethics, Leadership and Education in Nuclear Medicine and/or Diagnostic Imaging

Use of Hybrid Diagnostic Imaging in Cardiology

Member States Experience with

Nuclear Cardiology (SPECT, PET)

Tue, 11 October 2016

16:00-17:00

Member States Experience with Nuclear Cardiology

(SPECT, PET)

Setting Up a Nuclear Medicine and/or Diagnostic Imaging

Facility

Wed, 12 October 2016

14:30-15:30

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Member States Experience with Other Imaging Modalities in Cardiology (MRI, CT, Echocardiography)

Quality Management, Quality Control, Quality Assurance and Audits in Nuclear Medicine and/or Diagnostic Imaging

Issues of Medical Physics, Instrumentation and Image Processing and Analysis

Radiopharmaceutical
Production Using Cyclotrons
and Radionuclide Generators –
Including Good Manufacturing
Practices and Quality
Assurance Aspects – with
Special Reference to Imaging
Agents for CVDs

Radiation Protection for Personnel and Dose Reduction for Patients **EXHIBITS**

Exhibits will be located on the first floor (MO1) from Monday to Thursday, 10–13 October 2016.

List of exhibitors

AOFNMB (Asia Oceania Federation of Nuclear Medicine and Biology)

CANM (Canadian Association of Nuclear Medicine)

Division of Human Health Exhibition, IAEA

EACVI (European Association of Cardiovascular Imaging)

ESR (European Society of Radiology)

GE Healthcare

Mediso I td

Siemens Healthcare Diagnostics GmbH

The fact that the IAEA has made facilities available for exhibitors does not imply that it endorses the equipment and products exhibited.

SUNDAY, 9 OCTOBER 2016

16:00-18:00 Advanced registration

MONDAY, 10 OCTOBER 2016

08:00 ongoing

Registration and distribution of

conference material

09:00-09:30 OPENING SESSION

Location: Board Room A

G. Gil-Feigl

Minister-Counsellor Alternate to the Resident Representative of Austria

Permanent Mission to the IAEA in Vienna

A. Malavasi, IAEA

Deputy Director General
Department of Nuclear Sciences

and Applications

D. Yang, IAEA

Deputy Director General

Department of Technical Cooperation

M. Abdel-Wahab, IAEA

Director

Division of Human Health

Department of Nuclear Sciences

and Applications

M. Venkatesh, IAEA

Director

Division of Physical and Chemical Sciences

Department of Nuclear Sciences

and Applications

D. Paez. IAEA

Section Head

Nuclear Medicine and Diagnostic Imaging

Division of Human Health

Department of Nuclear Sciences

and Applications

09:30-10:30

PLENARY SESSION I

Setting Up the Scene

Location:

Board Room A

Chairperson: Marcus Hacker, EANM IAEA Coordinator: Diana Paez

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
09:30-10:00	Oyere K. Onuma	WHO	Key Note: Sustainable Development Goals - Role of the UN
			Organizations
			1. Discuss the importance of the UN Organizations within the framework of Sustainable Development Goals (SDGs)
			2. Recognize the burden of cardiovascular disease and its relation to the SDGs $$
10:00-10:30	Gerald Maurer	MUV, Austria	What the Cardiologists Need to Know from Medical Images
			1. Discuss the complementary roles of information that can be derived from clinical data, biomarkers and imaging
			2. Examine the roles of different types of imaging techniques and how they impact on patient care and clinical outcome
10:30–11:00	Coffee/Tea Break		

11:00-13:00

PLENARY SESSION II

Ischemic Heart Disease

Location:

Board Room A

Chairperson: Joao Vitola, ASNC IAEA Coordinator: Maurizio Dondi

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
11:00-11:25	Hein Verberne	EANM	Imaging Ischemic Heart Disease: Role of SPECT and PET
			1.Discuss the application of appropriate use criteria for SPECT and PET in ischemic heart disease: state of the art
			2.Examine new insights in myocardial perfusion imaging: future
11:25–11:50	Florian Wolf	ESR	Imaging Ischemic Heart Disease: Role of CCTA
			1.Examine the role of CCTA in the management of ischemic heart disease
			2.Discuss the indications for using CCTA in the management of ischemic heart disease $$
11:50–12:15	Chiara Bucciarelli Ducci	EACVI	Imaging Ischemic Heart Disease: Role of Cardiac MRI 1.Examine the indications of cardiac MRI in patients with ischemic heart disease
			2.Discuss the role of cardiac MRI over and above other imaging modalities
12:15–12:40	Danilo Neglia	EACVI	Imaging Ischemic Heart Disease: Role of Echocardiography
	·		1.Integrate clinical information provided by stress echocardiography for the management of patients with suspected coronary artery disease
			2.Discuss the appropriate use of stress echocardiography in the context of multimodality imaging in patients with suspected coronary artery disease
12:40-13:10			Synthesis and Q&A
13:10–14:30	Working Lunch		

14:30–16:00 READ WITH THE EXPERTS I

Location: Board Room A

Chairperson: Amalia Peix, Cuba IAEA Coordinator: Enrique Estrada Lobato

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
14:30–15:15	Barry Elison	ANZSNM	Read with the Expert: Ischemic Heart Disease (SPECT, PET)
			Discuss the role of nuclear cardiology in ischemic heart disease using actual case images for further interpretation and discourse
15:15–16:00	Florian Wolf	ESR	Read with the Expert: Ischemic Heart Disease (CCTA, Cardiac MRI)
			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 POSTER REVIEW SESSION I

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
16:00–17:00	Thomas Pascual	IAEA	Meet-the-Authors:
			Poster Review
			1.Discuss the different application of cardiac imaging and its usefulness in clinical management of patients with CVDs
	Reviewers		2.Propose novel methodologies in medical imaging that would impact patient management
	Adriano Duatti Akram Al-Ibraheem Amalia Peix Andrew Ross Barry Elison Daria Ryzhkova Erick Alexanderson Fernando Mut Francois Lamoureux Ganesan Karthikeyan Henry Bom Jerry Obaldo Jun Hatazawa Naima Al-Bulushi Nathan Better Roger Fulton Sally Schwarz Victor Kalff Vikram Lele		
17:00–19:00	Welcome Reception	M Building (MOE)	

08:30-09:00 BASICS I

How to Read an ECG and Perform a Stress Test

Location: Board Room A

Speaker: Nathan Better, ANZSNM

Learning objectives

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?

09:00-09:50 PLENARY SESSION III

Appropriate Use Criteria

Location: Board Room A

Chairperson: Barry Elison, ANZSNM IAEA Coordinator: Rodolfo Nuñez Miller

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
09:00-09:25	Paolo Raggi	Canada	Evidence-Based Medicine in Cardiac Imaging
			1.Examine the need for evidence-based medicine in cardiac imaging
			2.Recognize the limitations of evidence-based cardiac imaging
09:25-09:50	Leslee Shaw	SCCT	Cardiov ascular Diseases in the Female Population
			1. Discuss the cardiovascular disease profile within the female population
			2.Examine the appropriate diagnostic / imaging tests for this population
09:50–10:10	Coffee/Tea Break	(

10:00-12:10

PLENARY SESSION IV

Congestive Heart Failure

Location:

Board Room A

Chairperson: Fernando Mut, ALASBIMN IAEA Coordinator: Maurizio Dondi

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
10:10–10:35	Marcus Hacker	EANM	Imaging Congestive Heart Failure: Role of SPECT and PET
			1.Examine the role of SPECT and PET in the management of congestive heart failure
			2.Discuss the indications for using SPECT and PET in the management of congestive heart failure
10:35–11:00	Gianluca Pontone	SCCT	Imaging Congestive Heart Failure: Role of CCTA
			1.Examine the role of CCTA in the management of congestive heart failure
			2. Discuss the indications for using CCTA in the management of congestive heart failure $$
11:00–11:25	Chiara Bucciarelli Ducci	EACVI	Imaging Congestive Heart Failure: Role of Cardiac MRI 1.Examine the indications of cardiac MRI in patients with heart failure
			2.Discuss the principles of cardiac MRI image interpretation
11:25–11:50	Bogdan Popescu	EACVI	Imaging Congestive Heart Failure: Role of Echocardiography
			1. Examine the role of echocardiography in the management of congestive heart failure
			2.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		

13:30-14:15 FUNDAMENTALS I

CCTA

Location: Board Room A

Chairperson: Leslee Shaw, SCCT

IAEA Coordinat	or: Thomas Pascual		
Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
13:30–14:15	Michelle Williams	SCCT	Current Status of CCTA in Cardiology
			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
			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

14:15-16:00 READ WITH THE EXPERTS II

Location: Board Room A

Chairperson: Victor Kalff, WFNMB IAEA Coordinator: Enrique Estrada Lobato

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
14:15–15:00	Gianluca Pontone	SCCT	Read with the Expert: Challenging Cases (CCTA and Cardiac MRI) 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	Brian G. Abbott	ASNC	Read with the Expert: Pitfalls and Artefacts in Nuclear Cardiology
			1.Examine the common attenuation and reconstruction artefacts in SPECT and PET myocardial perfusion imaging
			2. Discuss how image processing can improve image quality

16:00-17:00 POSTER REVIEW SESSION II

Location:	MOE, MO1, Board Room B/M1
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Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
16:00– 17:00	Thomas Pascual	IAEA	Meet-the-Authors:

Poster Review

1.Discuss the different application of cardiac imaging and its usefulness in clinical management of patients with CVDs

2.Propose novel methodologies in medical imaging that would impact patient management

Reviewers

Adriano Duatti Akram Al-Ibraheem **Amalia Peix** Andrew Ross **Barry Elison** Daria Ryzhkov a Erick Alexanderson Fernando Mut Francois Lamoureux Ganesan Karthikeyan **Henry Bom** Jerry Obaldo Jun Hatazawa Naima Al-Bulushi **Nathan Better** Roger Fulton

Sally Schwarz Victor Kalff Vikram Lele

08:30-09:00

BASICS II

Getting Familiar with Interventional

Cardiology

Location:

Board Room A

Speaker:

Ganesan Karthikeyan, India

09:00-10:25 FUNDAMENTALS II

Cardiac MRI

Location: Board Room A

Chairperson: Marcus Hacker, EANM

IAEA Coordinator: Rav i Kashvap

Learning objectives

1.Review the basics and indications of using interventional cardiology in the management of patients with CVDs

 $2. Recognize \ common \ imaging \ findings \ seen \ in \ intervention al$

cardiology studies

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
09:00-09:45	Matthias Gutberlet	ESR	Current Status of MRI in Cardiology
			1.Examine the current status of MRI in the management of CVDs
			2.Discuss different MRI protocols available for appropriate patients
09:45–10:25	Matthias Gutberlet	ESR	Cardiac MRI: Case Review
			Discuss the role of cardiac MRI using actual case images for further interpretation and discourse
10:25–10:40	Coffee/Tea Break		

10:40-12:10 PLENARY SESSION V

What's New?

Location: Board Room A

Chairperson: Manuel Arreola, USA IAEA Coordinators: Gian Luca Poli, Harry Delis

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
10:40-11:10	Roger Fulton	Australia	Software and Hardware Advances in Nuclear Cardiology
			Discuss current software and hardware advances in nuclear cardiology and its advantages over current technology
11:10–11:40	Isabel Castellano	UK	Software and Hardware for CCTA
			1.Integrate an overview of the CT technical developments that underpin coronary CT angiography
			2.Discuss the impact of these developments on image quality and radiation dose to the patient
11:40–12:10	Thomas Beyer	MUV, Austria	PET/CT or PET/MR: Who Should PET Partner with?
			1.Discuss the quantitative nature of PET imaging in either modality
			2.Examine key applications and advantages/disadvantages of each modality
			3.Discuss protocol standardization and key elements of high quality clinical imaging protocols
			4.Integrate the principles of PET/CT and PET/MRI into clinical practice
12:10–13:30	Lunch Break		

PLENARY SESSION VI 13:30-14:30

Radiopharmacy Update

Location: **Board Room A**

Chairperson: Sally Schwarz, SNMMI IAEA Coordinator: Joao Osso

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
13:30–13:50	Kev in Charlton	OECD-NEA	OECD and the Supply of Medical Radioisotopes
			1.Discuss the current market demand and projected production capacity of 99Mo supply
			2.Discuss gaining awareness about the 99Mo supply challenge in 2016 and beyond
			3.Examine the range of measures available for mitigating future supply risk and the challenges of implementing them, including the NRU reactor 99Mo contingency capacity
13:50–14:10	SallySchwarz	SNMMI	Good Manufacturing Practice in the US Applied to the Production of Radiopharmaceuticals
			1.Discuss what constitutes good manufacturing practice
			2.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	Adriano Duatti	Italy	Overview of SPECT and PET Tracers for Cardiology
			1.Discuss conventional and novel SPECT tracers for MPI
			2.Examine available PET tracers for MPI
			3.Discuss available SPECT and PET tracers for studying cardiac neurotransmission
			4.Examine advantages and pitfalls of current imaging agents
			5.Discuss the cost-effectiveness and competition with other imaging modalities
			6.Examine future perspectives in the development of tracers for nuclear cardiology

14:30-15:30 POSTER REVIEW SESSION III

Location:	MOE, MO1, Board Room B/M1			
Time	Name	Designating Member State/Organization	Title of presentation and learning objectives	
14:30–15:30	Thomas Pascual	IAEA	Meet-the-Authors:	
			Poster Review	
			Discuss the different application of cardiac imaging and its usefulness in clinical management of patients with CVDs	
			2. Propose novel methodologies in medical imaging that would	

impact patient management

Reviewers

Adriano Duatti Akram Al-Ibraheem **Amalia Peix Andrew Ross Barry Elison**

Daria Ryzhkov a

Erick Alexanderson

Fernando Mut

Francois Lamoureux

Ganesan Karthikeyan

Henry Bom

Jerry Obaldo

Jun Hatazawa

Naima Al-Bulushi

Nathan Better

Roger Fulton

Sally Schwarz

Victor Kalff

Vikram Lele

THURSDAY, 13 OCTOBER 2016

08:30-09:00 BASICS III

Getting Familiar with CT Coronary

Angiography

Location: Board Room A

Speaker: Michelle Williams, SCCT

09:00-10:15 PLENARY SESSION VII

Other Indications for Cardiac Imaging

Location: Board Room A

Chairperson: Sharmila Dorbala, SNMMI IAEA Coordinator: Rodolfo Nuñez Miller

Learning objectives

- 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

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
09:00-09:25	Denis Agostini	EANM	Nuclear Cardiology in Evaluation of Coronary Flow Reserve and Implantable Device Infections
			1. Discuss how to use cardiac MIBG scintigraphy in heart failure to obtain a prognostic index
			2.Discuss how to use cardiac 99mTc-DPD scintigraphy to stratify cardiac amyloidosis
			3.Discuss how to measure coronary flow reserve by SPECT-CZT and a comparison with two modalities as FFR and PET
			4. Discuss how to detect cardiac implantable device infections by cardiac PET-18F-FDG
09:25–09:50	Victor Kalff	WFNMB	Nuclear Cardiology in Evaluation of Sympathetic Innervation 1.Define current need for assessment of cardiac sympathetic innervation
			2.Outline how current conventional planar & SPECT/CT tracers as well as PET/CT radiotracer studies are performed
			3.Define how these radiotracers are being used/ evaluated in disorders of cardiac innervation
			4. Discuss current status of the clinical role of nuclear cardiology in assessing cardiac sympathetic innervation
			5. Discuss current status of the research role of nuclear cardiology in assessing cardiac sympathetic innervation

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
09:50–10:15	Matthias Gutberlet	ESR	Other Indications for Cardiac MRI
			Review other indications for cardiac MRI and its relevance in clinical practice
10:15–10:35	Coffee/Tea Break		
10:35–12:30	PLENARY SESSION Ethics, Leadership, Challenges in Nucle		
Location:	Board Room A		
Chairperson: IAEA Coordinat	Jun Hatazawa, ARC tor: Thomas Pascual	CCNM	
Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
10:35–10:55	Andrew Ross	CANM, Canada	Ethical Issues Faced in Nuclear Cardiology: Principles and Case Discussion
			1.Examine ethics as it relates to nuclear cardiology practice
			2. Discuss specific issues which may be faced on a day-to-day practice
			3.Discuss how a nuclear medicine physician can ensure a high level of ethical practice is maintained
10:55–11:15	Sobhan Vinjamuri	BNMS, UK	Leadership: Case in Point
			1.Discuss leadership themes for imaging
			2.Examine motivations for decision making as a leader
11:15–11:35	Henry Bom	AOFNMB	Education: Case in Point
			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
11:35–11:55	Brian G. Abbott	ASNC	New Challenges in Nuclear Cardiology Practice
			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

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
11:55–12:15	Naima Al-Bulushi	ARSNM	Research From a Question to a Paper
			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 versus a weak one
12:15–12:30			Round Table Discussion
12:30–14:00	Working Lunch		
14:00–15:30	FUNDAMENTALS Safety and Quality	·==	
Location:	Board Room A		
Chairperson: IAEA Coordinat	Naima Al-Bulushi, or: Ravi Kashyap	ARSNM	
Time		Designating Member State/Organization	Title of presentation and learning objectives
14:00–14:20	David Sutton	UK	Radiation Burden in Cardiac Imaging
			1.Discuss levels of radiation doses given to patients in cardiac imaging examinations
			2.Discuss the radiation burden of cardiac imaging visa vis overall radiological exposures to patients
			3.Examine safety implications for individual patient radiation burden
14:20-14:40	Sharmila Dorbala	SNMMI	Appropriate Use Criteria
			 Discuss multimodality appropriate use criteria 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

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
14:40–15:00	Joao Vitola	ASNC	Eight Best Practices as Recommended by INCAPS
			1.Examine opportunities for optimization of nuclear cardiology protocols and improving practice
			2.Discuss patient safety and compliance with ALARA principle
15:00–15:20	Maurizio Dondi	IAEA	Quality Management and Clinical Audits in Nuclear Medicine 1.Identify the principles of Quality Management (QM) systems and Clinical Audits (CA)
			2.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	K	

THURSDAY, 13 OCTOBER 2016

15:45-17:00 PARALLEL SESSION

Read with the Experts III

Location: Board Room A

Chairperson: Vikram Lele, AOFNMB IAEA Coordinator: Enrique Estrada Lobato

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
15:45–16:25	Jean-Luc Urbain	CANM, Canada	Read with the Expert: Interesting Cases in Nuclear Cardiology
			Discuss the role of nuclear cardiology using actual case images for further interpretation and discourse
16:25–17:00	Jerry Obaldo	ARCCNM	Read with the Expert: Reporting Nuclear Cardiology Studies
			Discuss how to write structured nuclear cardiology scan reports
			2. Recognize common pitfalls in nuclear cardiology scan reports

15:45-17:00 PARALLEL SESSION

Medical Physics

Location: Room MOE10

Chairperson: Hilde Bosmans, Belgium IAEA Coordinators: Harry Delis, Gian Luca Poli

Time	Name	Designating Member State/Organization	Title
15:45–17:00	Nahid Hossain	Bangladesh	IAEA Doctoral Coordinated Research Projects on Advances
	Iliya Dyakov	Bulgaria	in Medical Imaging Techniques
	Sonja Iv anovic	Montenegro	
	Youssef Bouzekraoui	Morocco	
	Sornj arod Oonsiri	Thailand	

15:45-17:00 PARALLEL SESSION

Radiopharmacy

Location: Room M4

Chairperson: Adriano Duatti, Italy

IAEA Coordinator: Joao Osso

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
15:45–16:10	Sally Schwarz	SNMMI	Cardiac Radiopharmaceutical Development, Including Peptides and Nanoparticles
			1.Discuss new areas of cardiac radiopharmaceutical development including peptides and nanoparticles
			2.Examine applications for cardiac radiopharmaceuticals such as myocardial perfusion imaging and atherosclerosis
			3.Discuss cardiac imaging agents moving towards commercialization
16:10–16:35	Adriano Duatti	Italy	82Sr Production Using High Energy Cyclotron
			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)
			$5. \mbox{Examine}$ 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	Joao Osso	IAEA	IAEA Assistance in RI Production and Supply: 99Mo case
			Recognize the importance of Mo-99 and the issues related to Mo-99 supply
			2. Discuss alternative methods for the production of Mo-99 and/or Tc-99m $$
			3. Examine the role of IAEA in supporting Mo -99 and/or Tc-99m production by Member States

FRIDAY, 14 OCTOBER 2016

08:30-09:00 BASICS IV

How to Make an Excellent Nuclear Cardiology Report

Location: Board Room A

Speaker: Vikram Lele, AOFNMB

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

 ${\tt 4.Discuss}\ format and\ sequence\ of\ an\ excellent nuclear\ cardiology\ report}$

09:00-10:30 PLENARY SESSION IX

The (He)Art of Imaging-Techniques Matter

Location: Board Room A

Chairperson: Leslee Shaw, SCCT

IAEA Coordinator: Diana Paez

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
09:00-09:30	Raffaele Giubbini	Italy	Not All that Shines is Gold
			 Examine how to recognize artefacts and pitfalls in myocardial perfusion imaging
			Discuss how artefacts and pitfalls interfere with quantification in myocardial perfusion imaging
			 Recognize how artefacts and pitfalls impact on diagnostic process and risk stratification
09:30-10:00	Nathan Better	ANZSNM	It's All in Numbers
			1.Discuss the quantitation of perfusion and function - how and when to do it
			2.Discuss a comparison within and between patients
			 Examine how essential is quantitation and what to include in the report
10:00-10:30	Sharmila Dorbala	SNMMI	PET to the Future
			 Discuss the current PET based molecular imaging research in cardiovascular diseases
			2.Examine ongoing molecular imaging studies in cardiovascular diseases
10:30–11:00	Coffee/Tea Break		

FRIDAY, 14 OCTOBER 2016

11:00-13:00

PLENARY SESSION X

Closing Ceremony

Location:

Board Room A

IAEA Coordinator: Thomas Pascual

Time	Name	Designating Member State/Organization	Title of presentation and learning objectives
11:00–11:45	Joao Vitola	ASNC	Highlights & Trends
			Synthesize the relevant issues discussed on the role of integrated medical imaging in the management of patients with cardiovascular diseases and highlight key issues that would affect best practices
11:45–12:15	Aldo Malavasi	IAEA	Poster Awards
	May Abdel-Wahab	IAEA	
	Meera Venkatesh	IAEA	
	Diana Paez	IAEA	
	Joao Osso	IAEA	
	Thomas Pascual	IAEA	
	Henry Bom	AOFNMB	
	Marcus Hacker	EANM	
	Sally Schwarz	SNMMI	
	Victor Kalff	WFNMB	
12:15-13:00	Diana Paez	IAEA	Closing Remarks

POSTERS - REVIEW SESSION I

MONDAY, 10 OCTOBER 2016

Ethics, Leadership and Education in Nuclear Medicine and/or Diagnostic Imaging

Use of Hybrid Diagnostic Imaging in Cardiology

 $\label{lem:member_states} \mbox{Member States Experience with Nuclear Cardiology} \mbox{(SPECT, PET)}$

Location: MOE, MO1, Board Room B/M1

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
Ethics, Leaders and/or Diagnost	hip and Education in N iic Imaging	uclear Medicine	
153	P. Eshiett	Nigeria	Ethics, Leadership and Education in Integrated Medical Imaging
Use of Hybrid D	iagnostic Imaging in C	ardiology	
3	V. Artiko I. Grozdic-Milojevic M. Stojiljkovic S. Odalovic D. Sobic-Saranovic	Serbia	FDG PET/CT in Detection of Active Disease in Patients with Vasculitis
4	V. Artiko I. Grozdic-Milojevic M. Stojiljkovic S. Odalovic D. Sobic Saranovic	Serbia	FDG PET/CT in Detection of Vascular Graft Infection
17	I. Grozdic Miloj evic V. Artiko M. Stojiljkovic S. Odalovic D. Sobic-Saranovic	: Serbia	FDG PET/CT in Endocarditis Evaluation
40	Z. H. Awang M.F. Khalil N.N. Zulkifli H.A. Bolhan S.A. Wan Shardini	Malaysia	Underutilization of MUGA Study at Sarawak General Hospital, Malaysia
49	G. G. Bural M. Houseni	Turkey	Comparison of Inflammatory Atherosclerotic Changes in the Aortic Segments Detected with 18F-FDG PET/CT in Subjects with Insulin Dependent Diabetes Mellitus with the Normal Controls

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
59	M. Garcheva- Tsacheva V. Gelev	Bulgaria	Role of Myocardial Perfusion Scintigraphy in Evaluation of the Hemodynamic Significance of Borderline Coronary Stenosis
81	D. Ryzhkov a I. Kostina	Russian Federation	Cardiac PET and MRI for Assessment of Myocardial Viability in Patients with Totally Occluded Coronary Arteries
95	Z. Bouguerri M. Nacer Khodja G. Chalal R. Belakroum F. Menad E.M. Haffaf I. Ararem	Algeria	Comparison in 30 Patients Between Risordan Test and Thallium-201 Chloride Rest Myocardial Scintigraphy in Viability After Myocardial Infarct
97	G.D Jindal R.K Jain V. Sinha S. Bhat N. Patil A. Deshpande		Segmental Impedance Plethysmography: A Low Cost Supplement to Cardiovascular Diagnosis and Monitoring
109	N. Maroz- Vadalazhskaya R. Sakovich	Belarus	Strategic Trimetazidine-Linked FDG PET Pitfall in Young Patient with Suspected Myocarditis
114	V. Gomez-Johnson E. Alexanderson M. Estepa S. Canales A. Jimenez E. Morales A. Gallardo-Grajeda A. Ayala-German	Mexico	Does the Burden of Coronary Artery Calcium Lead to Impairment in Myocardial Blood Flow Assessed by 13N-ammonia PET/CT?
138	K. Myint	Myanmar	The SPECT-CT Experience of Myocardial Perfusion Imaging in Diagnosis of Coronary Artery Disease (Non-AC vs AC)
147	R. Moreira J.C. Meneghetti M. Izaki M. C. Giorgi R.A. Camargo J. Soares Junior	Brazil	Case Report: Sternal Osteomyelitis Diagnosed by 18F-FDG PET-CT in a Patient with Suspected Endocarditis

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
148	R. Moreira J.C. Meneghetti M. Izaki M. C. Giorgi R.A. Camargo J. SoaresJunior	Brazil	Case Report: Treatment Guided by 18F-FDG PET-CT in Patient with Infective Endocarditis
155	A. Y. Cotrado C. Mesquita	Brazil	Comparing Calcium Score in Low Dose CT Performed During Myocardial Perfusion Scintigraphy vs Dedicated Coronary Computed Tomography Angiography 64-slices
157	R. Viesca	Mexico	Detection of Early Cardiac Metastases by 18-F/FLT PET/CT in a 16-year old Patient with Osteosarcoma
172	A. Llamas-Olier R. Bustamante	Colombia	18FDG PET/CT Diagnosis of Solitary Heart Metastases from Malignant Melanoma
176	I. Noverko	Ukraine	Evaluation of Post infarction Aneurysm of Left Ventricle Using SPECT-CT
Member States E (SPECT, PET)	xperience with Nucle	ar Cardiology	
1	H. Moustafa M. Abou-Gabbal M. Omar S. El-Maghrapy	Egypt	The Value of Tc-99m MIBI Washout Rate in Detection of Coronary Artery Ischemia
5	Y. Peña Quian	Cuba	Gated Single Photon Emission Computer Tomography Detecting Silent Myocardial Ischemia. A Study in a Cuban Population of Type 2 Diabetic Patients.
9	P. Mohan H. Mahajan	India	Utility of Gated SPECT in Cardiovascular Risk Assessment of Diabetic Patients Undergoing Major Non-Cardiac Surgery
10	D. Sobic Saranovic I. Grozdic Milojevic N. Kozarevic Z. Petrasinovic M. Stojiljkovic V. Artiko	Serbia	Detection of Ischemia in Patients with Intermediate Duke Score: Gated SPECT MIBI Early Post Stress Imaging and Stress Echo Study
11	M. Ben Fredj H. Regaieg A. Ezzine S. Melki K. Chatti R. Sfar M. Guezguez	Tunisia	Assessment of Myocardial Viability Using Technetium-99m Labelled Tetrofosmin Rest Myocardial Perfusion Imaging with Nitrates Administration
13	I. Kostadinov a A. Demirev	Bulgaria	Application of Hybrid Imaging Methods in the Diagnostics of Patients Suspicious for Vascular Graft Infection

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
22	A.C.Puente Barragan S. Rosales Uvera M. Martinez Escobar L.G. Delgado	Mexico	Strategic Diagnosis of Perfusion Abnormalities in Patients with Rheumatoid Arthritis in a Developing Country
23	G. Malhotra T.Upadhye M. Rajan R. Asopa	India	Comparison of Quantitative Parameters of Myocardial Perfusion Scintigraphy and Echocardiography in Patients of Coronary Artery Disease with and without Systolic Dysfunction
24	M. Nascimento A. Oliveira C. Mesquita N. Barreto	Brazil	Evaluation of Breast Attenuation in the Anatomical and Functional Correlation Between Scintigraphy and Coronary Angiography
26	M. Nascimento A. Oliveira C. Mesquita	Brazil	Applicability of the Appropriate Use Criteria for Myocardial Perfusion Scintigraphy
27	A. Morales Salinas R. Bermudez Yera B. Garcia Rodriduez A. Peix		Trends in the Indications of Transes ophageal Echocardiography in Cardiocentro, Santa Clara, Cuba
28	H.P. Nguyen P.M. Le N. Dong V. Pham	Vietnam	Prognostic Value of Myocardial Perfusion Scintigraphy in Patients with Suspected or Known Coronary Artery Diseases
29	J. Mihailovic K. Nikoletic	Serbia	Myocardial Perfusion Scintigraphy: Assessment of Myocardial Ischemia and Independent Predicting Factors in Patients Without Previously Proven Coronary Artery Disease
30	T. Massardo L. Alarcon R. Femandez M. Rau J.P. Zhindon J. Gonzalez J. Carmona A. Castro H. Prat	Chile	Dipyridamole Stress Myocardial Perfusion SPECT: Medium-term Survival in Patients Assessed by Coronary Artery Disease
32	E. Huanca M. Torrez Cabero R. Araujo Rios A. Zambrana Zelada M. Vasquez Ibaňez O. Castro Sacci	Bolivia	Comparison of Left Ventricular Ejection Fraction with Gated SPECT Perfusion and QGS in Myocardial Perfusion: Institute of Nuclear Medicine - University of San Francisco Xavier de Chuquisaca

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
41	T. Thientunyakit C. Kaewput K. Ubolnuch T. Wangkawan P. Mali	Thailand	The Effect of Non-Fasting State Prior to Tc-99m Sestamibi Administration on Upper Abdominal Artifacts in Myocardial Perfusion Scan: A Pilot Study
42	J. Spuler T. Massardo E. Hiplan L. Alarcon G. Paillahueque H. Prat	Chile	Our Experience in Myocardial Perfusion SPECT, its Value in Kawasaki and Congenital Diseases: Protocol Analysis
44	L.O. Cabrera Rodriguez	Cuba	Epidemiologic Differences in Patients Referred to Myocardial Perfusion Scintigraphy in Cuba and Brazil
46	T. Massardo G. Paillahueque E. Hiplan R. Femandez E. Swett L. Alarcon A. Pino I. Aramburu S. Brugere E. Sanhueza J. Garate R. Aguayo R. Madariaga R. Morris R. Asenjo V. Vera	Chile	Functional Parameters and Myocardial Perfusion in Patients with Chronic Heart Failure, Left Bundle Branch Block and Ventricular Dyssynchrony
48	A. Al-Ibraheem D. Juaide	Jordan	Influence of Prolonged Fasting on Patterns of 18F-FDG Uptake in the Left Ventricle of the Myocardium During Oncologic PET/CT Studies
50	E. Hiplan T. Massardo E. Swett J. Gonzalez C. Concha L. Alarcon	Chile	Preliminary Experience with Radiolabelled Macroaggregates in Detection of Extracardiac Right to Left Shunts
51	G. Castro	Costa Rica	Nitrate-Augmented Myocardial Perfusion Imaging for Assessment of Myocardial Viability

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
54	L. Alarcon T. Massardo V. Araya H. Prat A. Pino I. Berrocal R. Jaimovich F. Cordero R. Femandez E. Herrera J. Carmona	Chile	Association Between Autonomic and Peripheral Neuropathy with Silent Ischemia and Early Renal Damage in Cardiac Asymptomatic Diabetes Mellitus Patients
55	E. Fazlibegovic I. Juric M. Hadziomerovic D. Rozic B. Starcevic A. Punda D. Hujic	Bosnia and Herzegovina	The Significance of Thallium-201-Chloride SPECT Myocardial Perfusion Imaging in Management of Patients with Chronic Coronary Heart Disease
58	A. Verma S. Pandey	India	Assessment of Left Ventricular Ejection Fraction in Left Ventricular Failure on a Gated Rest Redistribution Myocardial Perfusion Scintigraphy Using Ultra Low Dose Thallium 201 (TI201) Using Fast Solid State Detector Gamma Camera: The Experience at Fortis Escorts Heart Institute, New Delhi, India
64	R. Hussain S. Azmal F. Nasreen L. Nisa	Bangladesh	Impact of Gated SPECT Myocardial Perfusion Imaging in Clinical Management of Patients after Coronary Revascularization: An Observational Study
65	D. VajauskasG. BurneikaiteJ. CelutkieneR. Komiagiene	Lithuania	Inter-observer Variability of Reporting Myocardial Perfusion Imaging
66	S. Medina Ornelas F.O. Garcia Perez	Mexico	Value of Cardiac SPECT as a Predictor of Cardiotoxocity in Patientswith Prostate Cancer Treated with Abiraterone Acetate
67	B.R. Mittal A.K. Gorla A. Sood M. Parmar A. Bahl	India	Prognostic Utility of Biventricular Dyssynchrony Parameters Derived From Gated Blood Pool SPECT Phase Analysis in Patients with Non-Ischemic Dilated Cardiomyopathy

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
72	R.W. Lopes I.M. Pinto L.E. Mastrocola F.B. Alves D. Boccia P. Cestaria	Brazil	Combined Assessment to Known Coronary Arterial Disease Using 64-slice Computed Tomography and Myocardial Perfusion Scintigraphy (SPECT) – A Multifactorial Analysis
74	V. Agarwal	India	Does the Level of Stenosis in Single Vessel CAD Involving the Left Anterior Descending Artery Correlate with Thallium Defect Pattern in Myocardial Perfusion Scintigraphy?
75	V. Agarwal	India	To Explore the Role of FDG-PET in the Evaluation of Disease Activity Status in Large Vessel Vasculitis and its Correlation with Inflammatory Markers
76	V. Agarwal	India	GCB Type Primary Cardiac Lymphoma on FDG PET-CT
78	P. Pankaj A. Pruthi	India	Evaluation of the Role of 18F-FDG Cardiac PET and 99mTc- SESTAMIBIResting Myocardial Perfusion Imaging in Assessing the Therapeutic Benefit in Patients with Coronary Artery Disease and Left Ventricular Systolic Dysfunction
80	A. Barrenechea E. Barrenechea	Philippines	Demographics and Trends of Patients Who Underwent Myocardial Viability Imaging Using 18F-fluorodeoxyglucose (FDG) PET Imaging: An Institutional Experience
82	M. Chantad S. Tepmongkol	Thailand	Normal Values for 131I-MIBG Myocardial Sympathetic Imaging: Thailand Database (Preliminary Report)
84	M.R. Mititelu C. Mazilu I. Chiriac M. Lepus	Romania	Current Status of Nuclear Cardiology in Romania
86	S. Sandoval Borrego J. Esparza Negrete	Mexico	Supine Stress Position as a Maneuver to Improve Positivity in Cardiac Gammagraphy in the Diagnosis of Ischemic Heart Disease
88	A. Jimenez- Heffernan C. Salgado J. Lopez Martin T. Aroui M. Molina E. Sanchez De Mora C. Ramos	Spain	Safe Adverse Events Profile of Regadenoson in Patients with Stable Severe Chronic Obstructive Pulmonary Disease

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
89	A. Gorla S. Vadi A. Sood A. Bahl M. Parmar B.R. Mittal	India	Utility of Regional Wall Dyssynchrony, Inter- and Intra-ventricular Delay Estimation Using Fourier Phase Analysis in Patients with Dilated Cardiomyopathy
90	V. Gupta	India	Use of Adenosine Intervention During Myocardial Perfusion Imaging is Safe in Heart Failure Patients
92	R. W.Lopes A. M. Duarte C. Guimarães C. M. Bernal D. C. Souza L. L. Gonçalves	Brazil	Comparison of Software Programs for the Assessment of Left Ventricular Ejection Fraction Using 99mTc-Sestamibi-Gated SPECT:Correlation with Equilibrium Radionuclide Ventriculography in Patients with Fixed Perfusion Defects
93	A. Apostol J. Obaldo	Philippines	Clinical Usefulness of Sequential Subtraction Technique in Gastrointestinal Bleeding
94	A. Sood Y. Arora S.S Rana B.R Mittal	India	Evaluation of Effect of Coronary Artery Bypass Graft on Hibemating Myocardium by Cardiac PET Viability Study
98	C.A. Stan A.C. Chirion D.A. Stanescu	Romania	Myocardial Perfusion Imaging - A Cornerstone for Selecting Therapy of Patients with Left Ventricular Aneurysms
99	R. Kumar S. Karunanithi N. Wig R. Sood C. Bal	India	18F-FDG PET/CT for Diagnosis and Treatment Response Evaluation in Large Vessel Vasculitis

POSTERS - REVIEW SESSION II

TUESDAY, 11 OCTOBER 2016

Member States Experience with Nuclear Cardiology (SPECT, PET)

Setting up a Nuclear Medicine and/or Diagnostic Imaging Facility

Location: MOE, MO1, Board Room B/M1

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
Member States (SPECT, PET)	Experience with Nucle	ear Cardiology	
101	H. Indrawati	Indonesia	A Case Report: Incidental Finding of Lipomatous Hypertrophy of the Inter-atrial Septum on FDG-PET
102	H. Budiawan S. Park G.J. Cheon J.C. Paeng K.W. Kang J. Chung D.S. Lee	Indonesia	Transient Ischemic Dilation Ratio as a Predictor of Perfusion and Functional Improvement in Irreversible Severe Perfusion Defects After Coronary Artery Bypass Graft
107	A. Ayala German E. Alexanderson E. Morales A. Gallardo-Grajeda V.Gomez-Johnson A. Jimenez L. Juarez A. Jordan G. Trujillo	Mexico	Diastolic Function Measured by 13N Ammonia PET: Comparison Between Hypertension and Control Group
108	F. Iñarra E. Alexanderson L. Juarez A.G. Ayala German A. Gallardo Grajeda E. Morales A. Jimenez V. Gomez-Johnson	Mexico	Analysis of Left Ventricular Synchrony in Myocardial Ischemia with 13N-Ammonia Gated PET

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
112	L.A Marroquin E. Alexanderson L. Juarez A. Ayala-German A. Gallardo-Grajeda V. Gomez-Johnson E. Morales A. Jimenez	Mexico	Assessment of Left Ventricular Synchrony with Tc-MIBI 99 and Its Relationship to Myocardial Ischemia
116	B. Izic B. Šarić-Kundalic S. Izić M. Sulejmanović S. Čaluk	Bosnia and Herzegovina	The Assessment of Viable Myocardium in Patients with Dilated Cardiomyopathy with 99m Tc MIBI SPECT During Nitrate Administration
119	R. Z. Martiana B. Hidayat A.H. Kartamihardja	Indonesia	Myocardial Contractility Assessment as an Additional Parameter in Determining Viability Using Nitrate Augmented MPI Gated SPECT
121	C. Guizar Sanchez E. Alexanderson A. Ayala-German A. Jimenez N. Canseco Leon A. Meave	Mexico	Coronary Flows Measured by 13N-Ammonia/PET and Its Correlation in Patients with Hypertension Without Coronary Artery Disease
122	E. Morales Rodriguez E. Alexanderson V. Gomez-Johnson A. Jimenez Niño A. Gallardo-Grajeda M. Flores	Mexico	The Correlation Between Electrocardiographic Q-waves and the Presence of a Transmural Infarction Determined by Perfusion SPECT
123	A. Jimenez Niño E. Alexanderson A. Gallardo-Grajeda E. Morales A.Ayala-German V. Gomez-Johnson O. Perez L. Juarez	Mexico	Pathological Q-waves in Patients with Non-transmural Myocardial Infarction: Is Quantitative Perfusion a Factor?
124	E. Alexanderson C. Guizar A. Gallardo-Grajeda V. Gomez-Johnson S. Hernandez	Mexico	Enhancement of Diagnostic Accuracy of N13-Ammonia PET for the Detection of Coronary Artery Disease by the Quantification of Coronary Calcium

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
125	A. Gallardo-Grajeda E. Alexanderson A. Jiménez E. Morales A.G Ayala-German V.H Gomez-Johnson A. Meave		Myocardial Bridging: Evaluation of Myocardial Blood Flow with 13N-ammonia PET
126	E. Alexanderson E. Flores E. Morales C. Guizar R. Cano	Mexico	Normal Values of Left Ventricular Parameters in the Mexican Population Assessed with 13N-Ammonia-Gated PET
128	A. Meave E. Alexanderson V. Gomez-Johnson R. Cruz A. Ayala-German A. Gallardo-Grajeda E. Morales A. Jimenez Niño	Mexico	Benefit of the Initial Evaluation with SPECT or CCTA in Patients with Suspected Coronary Artery Disease
130	A. Cachicatari E. Alexanderson A. Gallardo-Grajeda A. Ramirez E. Morales A. Ayala-German V. Gomez-Johnson A. Jimenez Niño	Mexico	SPECT: A Diagnostic Tool in Heart Failure and Its Correlation with Poor Cardiovascular Prognosis Parameters
131	A. Ramirez E. Alexanderson E. Morales R. Martinez A. Jimenez Niño A. Gallardo-Grajeda V. Gomez-Johnson A. Ayala-German	Mexico	Usefulness of the [13N]-Ammonium by Positron Emission Tomography (PET) in the Diagnosis of Coronary Artery Disease
132	J. Padilla Ibarra E. Alexanderson A. Jimenez Niño G. Guinto A. Gallardo-Grajeda A. Ayala-German E. Morales V Gomez-Johnson	Mexico	Analysis of Diastolic Function in Type Two Diabetes Mellitus Patients with Ammonia PET

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
133	W. Yu M. Jinlei Z. Weihao H. Wei	China	The Role of SUV SPECT Perfusion Defect Quantification of the Lung as a Predictor of Severe Cardiovascular Events in a Cohort of Patients with Congestive Heart Failure
134	W.Yu H. Wei X. Jiadong M. Jinlei	China	Patients with Normal Exercise Stress Myocardial Perfusion Studies Who Achieve Less than 75% of Maximum Predicted Heart Rate Are at Increased Risk for Cardiac Events
136	S. Fatima S. Butt M.A. Saeed K.B. Mir J. Irfan	Pakistan	Left ventricular Dyssynchrony in Hypertensive Patients With Normal Systolic Function Detected by Myocardial Perfusion Scintigraphy
137	S. T. Butt S. Fatima K. Bashir Mir S.A. Bokhari S. Ul Haque	Pakistan	Assessment of Mechanical Dyssynchrony by Myocardial SPECT Imaging Is Predictor of Mortality in Congestive Heart Failure Patients with Normal QRS Duration
139	L. T. Puracan R.A. Conlu	Philippines	18F-FDG PET/CT in the Diagnosis of Prosthetic Valve Endocarditis
141	A. Ezzine M. Ben Fredj H. Regaieg S. Melki H. Boudrigua R. Sfar K. Chatti M. Guezguez	Tunisia	Apical Artifact on Myocardial Perfusion Imaging Due to the Use of IQ-SPECT
143	F. Cinaral Sayin O. Savas den Hartigh	Turkey	Utility of Combined Supine and Prone Positioning for IQ-SPECT System for Correcting the False Positive Results
144	S. E. Bouyoucef S. Rahabi	Algeria	SPECT MPI in the Assessment of Post Infarct Therapeutic Attitude
146	S. Rahabi S. E. Bouyoucef	Algeria	SPECT MPI Findings in the Prognosis of Dilated Cardiomyopathy
150	M. Štalc M. Dolenc Novak D. Latifić Jasnič B. Gužič Salobir	Slovenia	Role of Nuclear Imaging in Cardiac Amyloidosis - Case Report
152	M. Kapitan Otero R. Hitateguy F. Mut	Uruguay	Relationship Between Transient Ischemic Dilatation Without Perfusion Defects and Changes in Heart Rate During Acquisition

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
154	S.C. Brandão E.T. Albuquerque R.A. Machado M. S. De Souza T.C. Oliveira A.C. De Oliveira A. Nunes	Brazil	Impact of Prone Acquisition After Stress on Attenuation Artifacts Resolution in Men and Women
159	E.E. Ongkeko E. Magsombol	Philippines	Mirror Image Tc-99m Sestamibi Localization in a Patient with Situs Inversus Totalis Presenting with Right Sided-Chest Pain
161	C. Mesquita C.Braga Rodrigues F.A. Silva A. De Oliveira	Brazil	Nuclear Cardiology – Status in Brazil for 2016
166	N.H. Le H.S. Mai	Vietnam	18F-FDG PET in Myocardial Viability Assessment and Left Ventricular Function Improvement in Post-Myocardial Infarction Patients
167	H.S. Mai N.H. Le	Vietnam	Relationships Between Abnormal Myocardial Perfusion Imaging and Left Ventricular Mechanical Dyssynchrony Measured by Gated SPECT Tc99m-Sestamibi in Coronary Artery Disease Patients
170	A. C. Do Amaral T. Ribeiro T. Brilhante Reis A. Rocha R. De Souza	Brazil	Prognostic Value of a New Ultrafast, Low-Radiation Myocardial Perfusion SPECT Protocol in a CZT Camera
173	C.A. De los Reyes R. Bustamante	Mexico	Carcinoid Heart Disease: Illustrated Clinical Case
175	A. Naojee H. Dustagheer P.K. Ramdass H. Sonea	Mauritius	Challenges in Performing Pharmacological Stress Myocardial Perfusion Imaging in a Center with Limited Resources
177	R. Milardović N. Bešlić	Bosnia and Herzegovina	Regadenoson in Myocardial Perfusion Study – First Institutional Experiences in Bosnia and Herzegovina
179	M. Agolti F. Juarez Abasto	Argentina	Our Experience in the Usefulness of Myocardial Perfusion SPECT (MIBI SPECT) in the Diagnosis of Ischemic Heart Disease in Patients with Normal Exercise Stress Test

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
180	P.K. Ramdass A.S. Naojee H.S. Dustagheer L. Savurimuthu S. Baichoo H. Sonea C. Ahgun V. Sungkur	Mauritius	A Comparative Study of the Congruence Between Positive Myocardial Perfusion Imaging Studies and Coronary Angiography Reports of Patients with Coronary Artery Disease
184	E.T Albuquerque S.C. Brandão L.R. Andrade R. A. Machado M.S. De Souza T.C. Da Silva A.C. De Oliveira A. Nunes	Brazil	Relationship Between Post-Stress LVEF Drop and Myocardial Perfusion Defects in Routine Gated SPECT Scans
190	M. Urhan M. Yalcin N. Ozmen Y. Narin	Turkey	Myocardial Perfusion Imaging with a Novel Single Photon Emission Computed Tomography Camera Implemented with Multiple Ultra-fast, Cadmium-zinc-telluride Detectors
191	V. Majstorov D. Pop Gjorcheva M. Vavlukis	The Former Yugoslav Republic of Macedonia	Evaluation of Myocardial Perfusion in Patients with Systemic Lupus Erythematosus by Using 99mTc-Sestamibi Gated-SPECT
192	G. Valdes A. Puente S. G. Rosales B. Rivera	Mexico	Anatomical Distribution of Coronary Calcium Score and Myocardial Perfusion Abnormalities Detected by 13N-Ammonia PET-CT
195	M.S. Afzal M.B. Imran M.S. Akhtar	Pakistan	Role of Rest GMPS in Patients with Ischemic and Non Ischemic Dilated Cardiomyopathy; Differences in Perfusion and Wall Thickening
197	O. Gill	Pakistan	Prevalence of Coronary Artery Disease in Patients Having Essential Hypertension with or without Diabetes Mellitus Detected by Myocardial Perfusion Scintigraphy
198	F. Ali	Pakistan	Cardiac Viability Scintigraphy using Sublingual Nitrate: Our Experience at Ginum Hospital
200	M. Iqbal M.B. Imran	Pakistan	Assessment of Small Heartsfor Perfusion Defects in Comparison with General Population Using Myocardial Perfusion Scintigraphy
201	A. S. Abbasi M. A. Hingorjo	Pakistan	Collateral Circulation in the Patients of Myocardial Infarction

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
203	N. Niell A. Rener M. Beretta M. Kapitan Otero F. Mut	Uruguay	Meaning of Symmetrical, Inverted and Deep T Waves in Patients Referred to Gated-SPECT: Functional and Structural Value of the Method
205	Y. Herrera Malo J.J. Herrera	Panama	Appropriate Use Criteria for Stress Myocardial Perfusion Imaging in a Tertiary Level Hospital in Panama: A Pilot Study
206	V.A. Marin C. Gutierrez-Villamil A. Mejia-Lopez S. Arevalo-Leal	Colombia	Phase Analysis to Measure Left Ventricular Dyssynchrony by Gated-SPECT Myocardial Perfusion Imaging Showed by Two Different Software
207	I. Berrocal-Gamboa	Costa Rica	Reduce Radiation Exposure in Nuclear Cardiology: Public Healthcare Provider in Costa Rica Incorporated New Technology and Low Dose Reduction: A Choosing Wisely Proposal
210	S. Yepez D. Benavides J.C. Melito C. Castellanos	Venezuela	Experience in the Use of Myocardial Perfusion Imaging in the Military Hospital Dr. Carlos Arvelo from July 2014 - June 2016
211	C. Castellanos	Venezuela	Myocardial Perfusion Imaging and Coronary Angiography in the Evaluation of the Functional Significance of Coronary Lesions
212	A. Mendoza Paulini L.S. Talledo P.R. Araujo D.M. Guerrero L.S. Segundo	Peru	Evaluation of the Cardiopulmonary Index and the Relationship with the Severity of Coronary Disease in the Elderly Patients
Setting up a Nuc	clear Medicine and/or l	Diagnostic Imaging	
16	A. Abaza G. El-Shanshoury H. El-Shanshoury	Egypt	The Effective Value of PET/CT in Diagnosing Cardiovascular Disease and Pediatric Cancer: A Comparative Study
69	R.N. Aguero C. Gianonne A. C. Zarlenga	Argentina	Radionuclide Ventriculography Utility in Monitoring Cardiotoxicity Cancer Treatment: Experience in a Cancer Center
104	G. Gimenez M. Pedrozo J. Ortellado B. Grossling J. Nuñez P. Galvan	Paraguay	Cardiac Nuclear Medicine in Paraguay: An Effective and Affordable Intervention from the Public Health in Prevention and Treatment of Noncommunicable Chronic Diseases

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
106	S.K. Biswas A.W. Chawdhury F.S. Haque F. Rahman M. Hossain S. Hossain	Bangladesh	Flow Mediated Vasodilation (FMD) & Carotid Intima Media Thickness (IMT) for Evaluating Endothelial Dysfunction in Patients with Coronary Artery Disease
171	H. Sonea A. Naojee P.K. Ramdass L. Savurimuthu C. Ahgun	Mauritius	A Comparison of Patients' Tolerance and Side Effects: Dobutamine versus Dipyridamole Stress Myocardial Perfusion Imaging
174	P.K. Ramdass A.S. Naojee L. Savurimuthu H. Sonea C. Ahgun V. Sungkur H.S. Dustagheer S. Baichoo	Mauritius	Cardiac Nuclear Imaging in Mauritius in the Absence of PET and Hybrid Nuclear Imaging Facilities
199	A. Khan S. Qasim J. Ali	Pakistan	Establishment of first Nuclear Cardiology Set-Up in SWAT- Northern Pakistan

POSTERS - REVIEW SESSION III

WEDNESDAY, 12 OCTOBER 2016

Member States Experience with other Imaging Modalities in Cardiology (MRI, CT, Echocardiography)

Quality Management, Quality Control, Quality Assurance and Audits in Nuclear Medicine and/or Diagnostic Imaging

Issues of Medical Physics, Instrumentation and Image Processing and Analysis

Radiopharmaceutical Production Using Cyclotrons and Radionuclide Generators - Including Good Manufacturing Practices and Quality Assurance Aspects - with Special Reference to imaging Agents

Radiation Protection for Personnel and Dose Reduction for Patients

Location: MOE, MO1, Board Room B/M1

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
	Experience with other I, CT, Echocardiograp	Imaging Modalities in hy)	
7	B. Moifo J.R. Moulion Tapou A.P. Menanga W. Yakam Deugoue A. Simo		Determinants of Carotid Intima Media Thickening in a Group of Adults in Yaounde
8	A. Pallewatte	Sri Lanka	Analysis of Imaging Modalities Used for Coronary Artery Disease in Sri Lanka and Identification of Challenges
14	A. Omerbasic F. Raguz	Bosnia and Herzegovina	The Heart Murmor Which Saved the Life: Giant Left Atrium Myxoma
35	S. Rosales Uvera A. Puentes Barragar	Mexico า	Biventricular Ventricular Non-Compaction Cardiomyopathy as Cause of Irreversible Heart Failure in Male Teenager
36	A. Boshchenko A. Vrublevsky R. Karpov	Russian Federation	Non-contrast Low Frequency Transthoracic Echocardiography in Detecting Chronic Occlusions of the Left Anterior Descending and Right Coronary Arteries
45	H. Al Dhuhli A. Al Dhuhli	Oman	Accuracy of Echocardiography and Nuclear Myocardial Perfusion Scintigraphy (MPS) in Assessing Cardiac Function in Comparison with Cardiac CT

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
47	M.G. Vargas	Philippines	Utility of Chest X-ray in Quantifying Pulmonary to Systemic Shunt (Qp:Qs) Ratio Among Patients with Acyanotic Congenital Heart Disease Using Cardiac Magnetic Resonance Imaging as Reference Standard
60	P. Omh	India	Quantitative and Qualitative Evaluation of EF by 99mTc-MIBI and Echo: Is There Any Correlation Between These Two Modalities?
61	R. Boughrarou B. Mansouri	Algeria	Diagnostic Performance of Combined Noninvasive Coronary Angiography and Myocardial Perfusion Imaging Using 320 - MDCT
62	R. Boughrarou B. Mansouri	Algeria	Combined Cardiac CT and MRI for the Comprehensive Workup of Hemodynamically Relevant Coronary Stenoses
68	E.A. Omamo R. A. Nyabanda	Kenya	The Spectrum and Distribution of Imaging Findings at Coronary Computed Tomography Angiogram in Patients Suspected to Have Coronary Artery Disease
111	L.K. Agoda- Koussema V.K. Adjenou F. Damourou A. Boube K.D. Amouzou M. Mijiyawa K. Ndakena	Togo	Inventory of Fixtures in Cardiovascular Imaging in Togo
113	I. Bandong M.A. Rodriguez	Philippines	Association of Aortic Arch Calcification on Chest Radiography and Coronary Calcium Score in Detecting Coronary Artery Disease Among Filipino Seafarers
115	I. Bandong M.A. Rodriguez	Philippines	Usefulness of Aortic Arch Calcification on Chest Radiograph in Detecting Coronary Artery Disease Among Filipino Seafarers
117	A. Meave E. Alexanderson A. Gallardo-Grajeda A. Cachicatari V. Gomez-Johnson A. Jimenez D. Morales A. Ayala-German	Mexico	Utility of Cardiac Computed Tomography in Evaluation of Anomalous Pulmonary Venous Connection

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
149	R. Cano E. Alexanderson A. Meave A. Ayala-German A. Gallardo Grajeda E. Morales V.Gomez-Johnson A. Jimenez	Mexico	Cardiac Magnetic Resonance and Multidetector Computed Tomography as Useful Tools for Evaluating Coronary Arteries in the Long Term Follow-up of Kawasaki Disease in Mexican Children
156	A.Gallardo-Grajeda G. Contreras E.Berrios-Barcenas E. Alexanderson S. Canales-Albarran V.H Gomez-Johnsor A.G Ayala-German E. Morales A. Jimenez-Niño		Predictors of Coronary Artery Disease (CAD) in the Mexican population: Study with Coronary Computed Tomographic Angiography
158	E. Berrios Barcena E. Alexanderson G. Melendez A. Meave A. Ayala-German A. Gallardo-Grajeda E. Morales- Rodriguez V. Gomez-Johnson J.Lainez		Prognostic Value of Parameters Measured by CMR for Predicting Events Associated with Arrhythmias in Hypertrophic Cardiomyopathy
162	E. Alexanderson E. Berrios Barcena J. Lainez G. Melendez A. Meave A. Ayala-German A. Gallardo-Grajeda E. Morales = V.Gomez-Johnson A. Jimenez-Niňo		Cardiac Magnetic Resonance (CMR) in Pediatric Hypertrophic Cardiomyopathy

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
168	E. Berrios Barcena E. Alexanderson J. Lainez G. Melendez A. Meave A. Ayala-German A. Gallardo-Grajeda E.Morales V. Gomez-Johnson A. Jimenez-Niňo	a	Coronary Calcium Role as a Death Predictor in Valvular Heart Surgery
169	E. Berrios Barcena E. Alexanderson J. Lainez G. Melendez A. Meave A. Ayala-German A. Gallardo-Grajeda E. Morales Rodriguez A. Jimenez-Niňo		Burden of Atheroesclerosis Assessed with Computed Tomography in Patientes with Aortic and Mitral Valve Disease
187	E. Slobina T. Dakukina	Belarus	Cancer Patient Management in Neurological Clinic by Using US and MRI Imaging of Cardiovascular System
188	T. Dakukina E. Slobina	Belarus	MRI and Cardiac US Utilities in Patients with Pharmacoresistant Epilepsy and Acute Myocardial Infarction
202	A.W. Tarbagdo	Burkina Faso	Role and Place of Myocardial Perfusion Scintigraphy in Nuclear Medicine at Yalgado Ouedraogo Teaching Hospital After Four Years
204	A. Perez	Dominican Republic	Advances in the Use of Medical Imaging for Improvement of Patients With Coronary Artery Disease in the Dominican Republic
213	T. I. Cuadra De Caldera	Nicaragua	Case Report of Utility of Imaging on Coronary Disease in Nicaragua
214	S. Miranda	Bolivia	Experience in Implementing Nuclear Cardiology Studies at the Santa Cruz Hospital Caja Petrolera de Salud
215	P.R Araujo S. Leon	Peru	Estimation of Effective Radiation Dose in Pediatric Patients with Heart Congenital Disease in CT Angiography
216	I. Bandopadhyaya	India	Correlation of calcium scoring with severity of stenosis on CT coronary angiography
217	G. Jameel Z. Zahur S. Butt M. Ilayas	Pakistan	Correlation of Coronary CT Calcium Scoring with Technetium Labelled Sestamibi Scan in Prediction of Future Cardiac Events

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
218	K. Al Senaidi T. Surekha S. Al Zadjali Y. Wali	Oman	Echocardiographic Evaluation of Hypertransfused Children with β Thalassemia Intermedia Using Standard and Tissue Doppler Methods
	ment, Quality Contro ar Medicine and/or Di	l, Quality Assurance and agnostic Imaging	
15	S. Mohamed S. Al Karousi	Oman	Appropriateness of Myocardial Perfusion Scintigraphy (MPS) in Coronary Artery Disease at Sultan Qaboos University Hospital
71	L.A. Moreno E. Velasco	Panama	Cardiac Imaging Reports: Are We Communicating?
77	L.A. Torres Aroches A. Prats Capote A.Peña Tomet L.M. Rochela J. Batista Cuellar Y. Peña Quian E.L. Sanchez Mendoza A. Perera Pintado C. Sanchez Queve	Cuba	Continuous Improvement of Nuclear Cardiology Practice Based on QUANUM Program
110	L. Chipeya	South Africa	A Conceptual Framework to Facilitate the Assessment of Myocardial Perfusion Image Quality
Issues of Medic Processing and	al Physics, Instrume Analysis	ntation and Image	
12	N. Denisova	Russian Federation	Cardiac SPECT Imaging Procedure: Computer Simulation
37	C. Yegros J. Nuñez M. Bordas	Paraguay	Modemization of Gamma Cameras
79	N. Seada M. Mostafa S. Hamad	Egypt	Fully Automatic Ascending Aorta Segmentation From Multi- Modality Images Using a Proposed Features Model
160	M. M. Rahman M. H. Rahman G. Abu Zakaria	Bangladesh	Deep Inspiration Breath Hold Techniques (DIBH) Based on 3DCRT to Reduce Heart and Lung Dose for Left Breast Cancer with Custom Made Respiration-Monitoring Device Using LPT System
164	B. Gunalp S. Donmez S. Ince A. Ayan	Turkey	Comparison of Imaging Performances of Cardiac Dedicated Ultrafast Solid State SPECT Camera with Conventional Dual Detector Rotating SPECT Camera in a Phantom Study

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
185	P. Eshiett M. Mamman	Nigeria	Radiation Protection for Personnel and Dose Reduction for Patients
Radionuclide Go	utical Production Usi enerators - Including (tuality Assurance Asp aging Agents	Good Manufacturing	
33	S.Fazaeli Hoseini S. Feizi	Islamic Republic of Iran	Production of Copper-62 PTSM Perfusion Agent Using Copper-62/Zinc-62 Radiopharmaceutical Generators in Iran
56	T. Siriprapa T. Thientunyakit	Thailand	F-18 FDG PET Tracer Production for Cardiovascular Applications at Siriraj Hospital by F300E SUMITOMO Module
57	A. Aghanejad A. Fakhari	Islamic Republic of Iran	Synthesis and Biological Evaluation of 68Ga-AMD3100 as a Possible PET Imaging Tracer for Cardiovascular Disease
103	J. Kleynhans P. Grobler M. Sathekge A. Grobler C. Bester Z. Jan Rijn	South Africa	Enhancing the Bioavailability of 99mTc-MIBI in Myocardial Perfusion Imaging by Utilizing the Pheroid® Technology Drug Delivery System
194	I.U. Khan R. Zahoor N. Gul M. Numair H. Naseer F. Ahmad A. Shahid	Pakistan	Capacity-building for In-house Development of Cardiac SPECT/CT and PET/CT Imaging Radiopharmaceuticals in Pakistan
Radiation Protect	ction for Personnel ar	nd Dose Reduction for	
2	H. Ndagire E. Okello	Uganda	Dose Optimization in Paediatric Cardiac X-Ray Imaging
18	M. Silindir Günay A. Y. Ozer	Turkey	PET Radiopharmaceuticals and Their Use in Hospital Practice in Turkey
19	D. Salama	Egypt	A Protocol to Optimize the Radiation Dose in Coronary CT Angiography to Sufficient Image Quality in Overweight Patients
20	N. Helal H. Mohie El-Din	Egypt	Acquisition Parameters Affecting Image Contrast in Single Photon Emission Computed Tomography (SPECT)

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
25	A. Oliveira M. Nascimento C. Mesquita A. Jader M. Rezende M. Rivera J. Santos	Brazil	Development a New Technique for Breast Attenuation Correction in Myocardial Perfusion Scintigraphy Using Computational Methods
31	C.V. Rodrigues C. T. Mesquita	Brazil	Challenges and Opportunities for Improvement on Current Nuclear Cardiology Practices and Radiation Exposure in Brazil: A Cross-sectional Survey
39	K. Zavadovsky A. Mochula Y. Lishmanov	Russian Federation	Dynamic Single Photon Emission Computer Tomography on Dedicated CZT Camera in Assessment of Myocardial Flow Reserve in Patients with Three-Vessel Coronary Artery Disease
52	F. Bentayeb Y. Bouzekraoui F. Bonutti H. Asmi	Morocco	Simulation of Scattered Radiation Components Effects on Imaging Quality Using Monte Carlo Code SIMIND
53	S. Bouj emaa B. Bentayeb	Morocco	Occupational Radiation Protection in Interventional Cardiology
63	R. Boughrarou B. Mansouri	Algeria	Pediatric Cardio Vascular 320-row CT Angiography: Effect of 80-kV, Tube Voltages on Image Quality, Contrast Volume and Radiation Dose
70	I. Batista Rago P. Trujillo G. Vignolo A. Duran A. Mila R. Lluberas	Uruguay	Operator Radiation Exposure: A Randomized Trial Comparing Right and Left Radial Approaches in Coronary Interventions
73	V. Agarwal N. Gangrade S. Varshney	India	Radiation Exposure to Thumb of Nuclear Medicine Physician During Injections in Nuclear Cardiology Procedures
83	A.O Osman	Sudan	National Cancer Institute, University of Gezira: Nuclear Cardiology: Challenges, Problems and Solutions
85	W. Amouri H. Charfi I. Jardak F. Hamza F. Kallel S. Charfeddine F. Guermazi	Tunisia	Is It Eligible to Evaluate the Performance of a Heart Dedicated SMARTZOOM Collimator with a Thyroid Phantom?

No of Poster IAEA-CN-243-	Name	Designating Member State/Organization	Title of Paper
118	C.H.Yeong S.K. Tan K.H. NG Y.F. Abdul Aziz Z. Sun	Malaysia	Assessment of Radiation Dose and Estimated Lifetime Attributed Risk of Cancer Incidence for Selected Contemporary Coronary Computed Tomography Angiography (CCTA) Protocols
145	A. Skopljak - Beganovic A. Beganovic M. Gazdic-Santic R. Jasic A. Drljevic E. Kucukalic- Selimovic	Bosnia and Herzegovina	Estimation of Patient Doses in Cardiac Imaging Using Ionising Radiation
163	I. Reizberg S. Massalha J. Kennedy R. Lugassi O.lsrael A. Koskosi G. Lichtenbeg	Israel	Staff Radiation Exposure During Transthoracic Echocardiography Performed in Temporal Proximity to Myocardial Perfusion Imaging
165	N. Helal	Egypt	Acquisition Parameters Affecting Image Contrast in Single Photon Emission Computed Tomography (SPECT)
178	A.C Moreira A. Vilas Boas C.H Murata, B.N Munhoz H.J Khoury R. Bitelli Medeiros	Brazil	Occupational Doses Evaluation in Interventional Cardiology Using Active Dosimeters
182	K. Saint I. Armstrong	UK	Myocardial Perfusion SPECT with General Purpose Collimators and Resolution Recovery: A Highly Accessible Means of Population Radiation Dose Reduction
189	H. Mahmoud D. Salama	Egypt	Dose Reduction in Computed Tomography through Image Quality Improvement

PARTICIPATION IN IAEA SCIENTIFIC MEETINGS

Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants in IAEA scientific conferences and symposia. In addition, the IAEA itselfmay invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Representatives of the press, radio, television or other information media and members of the public, the latter as 'observers', may also be authorized to attend, but without the right to take part in the proceedings.

Scientists interested in participating in any of the IAEA meetings should request information from the Government authorities of their own countries, in most cases the Ministry of Foreign Affairs or national atomic energy authority.

IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE

STI/PUB/1393	IAEA Human Health Series No. 1: Quality Assurance for PET and PET/CT Systems	2009
STI/PUB/1381	IAEA Human Health Series No. 2: Quality Assurance Programme for Screen-film Mammography	2009
STI/PUB/1425	IAEA Human Health Series No. 4: Comprehensive Clinical Audits of Diagnostic Radiology Practices: A Tool for Quality Improvement. Quality Assurance Audit for Diagnostic Radiology Improvement and Learning (QUAADRIL)	2010
STI/PUB/1437	IAEA Human Health Series No. 5: Radiolabeled Autologous Cells: Methods and Standardization for Clinical Use	2015
STI/PUB/1394	IAEA Human Health Series No. 6: Quality Assurance for SPECT Systems	2009
STI/PUB/1416	IAEA Human Health Series No. 8: Clinical Translation of Radiolabeled Monoclonal Antibodies and Peptides	2009
STI/PUB/1438	IAEA Human Health Series No. 9: Appropriate Use of FDG-PET for the Management of Cancer Patients	2010
STI/PUB/1457	IAEA Human Health Series No. 11: Planning a Clinical PET Centre	2010
STI/PUB/1491	IAEA Human Health Series No. 16: Atlas of Bone Scintigraphy in the Developing Paediatric Skeleton: The Normal Skeleton Variants and Pitfalls	2011
STI/PUB/1482	IAEA Human Health Series No. 17: Quality Assurance Programme for Digital Mammography	2011
STI/PUB/1516	IAEA Human Health Series No. 18: Nuclear Cardiology: Its Role in Cost Effective Care	2012
STI/PUB/1557	IAEA Human Health Series No. 19: Quality Assurance Programme for Computed Tomography: Diagnostic and Therapy Applications	2012

STI/PUB/1560	IAEA Human Health Series No. 20: Practical Guidance on Peptide Receptor Radionuclide Therapy (PRRNT) for Neuroendocrine Tumours	2013	IAEA-TECDOC- 1605	IAEA TECDOC No. 1605: A Guide to Clinical PET in Oncology: Improving Clinical Management of Cancer Patients	2008
STI/PUB/1566	IAEA Human Health Series No. 23: Nuclear Cardiology: Guidance and Recommendations for Implementation in Developing Countries	2012	IAEA-TECDOC- 1597	IAEA TECDOC No. 1597: Clinical Applications of SPECT/CT: New Hybrid Nuclear Medicine Imaging System	2008
STI/PUB/1609	IAEA Human Health Series No. 24: Dosimetry in Diagnostic Radiology for Paediatric Patients	2013	IAEA-TECDOC- 1549	IAEA TECDOC No. 1549: Criteria for Palliation of Bone Metastases — Clinical Applications	2007
STI/PUB/1610	IAEA Human Health Series No. 25: Roles and Responsibilities, and Education and Training Requirements for Clinically Qualified Medical Physicists	2013	IAEA-TECDOC- 1414	IAEA TECDOC No. 1414: Development of Kitsfor 99mTc Radiopharmaceuticals for Infection Imaging. Report of a co-ordinated research project 2000–2003	2004
STI/PUB/1616	IAEA Human Health Series No. 26: Standard Operating Procedures for PET/CT: A Practical Approach for Use in Adult Oncology	2013	IAEA-TECDOC- 1608	IAEA TECDOC No. 1608: Nuclear Medicine in Thyroid Cancer Management: A Practical Approach	2008
STI/PUB/1642	IAEA Human Health Series No. 27: PET/CT Atlason Quality Control and Image Artefacts	2014	IAEA-TECDOC- 1537	IAEA TECDOC No. 1537: Strategy and Methodology for Radioactive Waste Characterization	2007
STI/PUB/1648	IAEA Human Health Series No. 29: Guided Intraoperative Scintigraphic Tumour Targeting (GOSTT) Implementing Advanced Hybrid	2014	IAEA-TECDOC- 1603	IAEA TECDOC No. 1603: The Role of PET/CT in Radiation Treatment Planning for Cancer Patient Treatment	2008
	Molecular Imaging and Non-imaging Probesfor Advanced Cancer Management		IAEA-TECDOC- 1430	IAEA TECDOC No. 1430: Radioisotope Handling Facilities and Automation of Radioisotope Production	2004
STI/PUB/1680	IAEA Human Health Series No. 32: Clinical PET/CT Atlas: A Casebook of Imaging in Oncology	2015	IAEA-TECDOC- 1498	IAEA TECDOC No. 1498: Development of Radioimmunometric Assays and Kitsfor Non-clinical Applications – Proceedings of a final	2006
STI/PUB/1498	IAEA Human Health Reports No. 4: Implementation of the International	2011		research coordination meeting held in Vienna, 6–10 December 2004	
	Code of Practice on Dosimetry in Diagnostic Radiology (TRS 457): Review of Test Results		IAEA-TECDOC- 1183	IAEA TECDOC No. 1183: Management of radioactive waste from the use of radionuclides in medicine	2000
STI/PUB/1605	IAEA Human Health Reports No. 9: Quantitative Nuclear Medicine Imaging Concepts, Requirements and Methods		STI/PUB/1141	Non-serial Publications: IAEA Quality Control Atlas for Scintillation Camera Systems	2003
IAEA-TECDOC-	IAEA TECDOC No. 1714:	2013	STI/PUB/1198	Non-serial Publications: Nuclear Medicine Resources Manual	2006
1714	Management of Discharge of Low Leve Liquid Radioactive Waste Generated in Medical, Educational, Research and Industrial Facilities		STI/PUB/1342	Non-serial Publications: Operational Guidance on Hospital Radiopharmacy. A Safe and Effective Approach	2008

STI/PUB/1371	Non-serial Publications: Quality Management Audits in Nuclear Medicine Practices	2009	STI/PUB/1088	IAEA Safety Standards Series No. WS-2 G-2.3: Regulatory Control of Radioactive	2000
STI/PUB/1344	Non-serial Publications: Strategies for Clinical Implementation and Quality Management of PET	2009	OTUDUD 4400	Discharges to the Environment Safety Guide	
	Tracers		STI/PUB/1093	IAEA Safety Standards Series No. GS- 2 R-1:	2000
STI/PUB/1617	Non-serial Publications: Nuclear Medicine Physics: A Handbook for Teachers and Students	2015		Legal and Governmental Infrastructure for Nuclear, Radiation, Radioactive Waste and Transport Safety	
IAEA-TCS-50	Training Course Series No. 50: Clinical Training of Medical Physicists specializing in Nuclear Medicine	2011	STI/PUB/1117	IAEA Safety Standards Series No. RS-2 G-1.5: Radiological Protection for Medical Exposure to Ionizing Radiation. Safety Guide	2002
IAEA-TCS-39	Training Course Series No. 39: Competency Based Hospital Radiopharmacy Training	2010	STI/PUB/1192	IAEA Safety Standards Series No. GS-2 G-1.5: Regulatory Control of Radiation	2004
STI/PUB/1405	IAEA Radioisotopes and	2010		Sources. Safety Guide	
	Radiopharmaceuticals Series No.1: Technetium-99m Radiopharmaceuticals: Status and		STI/PUB/1227	IAEA Safety Standards Series No. RS-2G-1.9:	2005
	Trends			Categorization of Radioactive Sources Safety Guide	
STI/PUB/1436	IAEA Radioisotopes and Radiopharmaceuticals Series No.2: Production of Long Lived Parent Radionuclides for Generators: ⁶⁸ Ge, ⁸² Sr. ⁹⁰ Sr and ¹⁸⁸ W	2010	STI/PUB/1269	IAEA Safety Standards Series No. TS- G-1.3: Radiation Protection Programmes for the Transport of Radioactive material	2007
STI/PUB/1515	IAEA Radioisotopes and Radiopharmaceuticals Series No.3: Cyclotron Produced Radionuclides: Guidance on Facility Design and Production of [¹⁸ F] Fluorodeoxyglucose	2012	STI/PUB/1253	IAEA Safety Standards Series No. GS-26-3.1: Application of the Management System for Facilities and Activities	2006
CT1/D1/D /4 CC2	(FDG)	2045	STI/PUB/1467		2011
STI/PUB/1662	IAEA Radioisotopes and Radiopharmaceuticals Series No.5: Yttrium-90 and Rhenium-188 Radiopharmaceuticals for Radionuclide	2015		GSG-2: Criteria for Use in Preparedness and Response for a Nuclear or radiological Emergency	
STI/PUB/1674	Therapy IAEA Radioisotopes and	2015	STI/PUB/1465	IAEA Safety Standards Series No. GSR 2 Part 1: Governmental, Legal and	2010
01.11 02/10/1	Radiopharmaceuticals Series No.6: Radiopharmaceuticals for Sentinel	2010		Regulatory Frameworkfor Safety. General Safety Requirements Part 1	
	Lymph Node Detection: Status and Trends		STI/PUB/1570		2012
STI/PUB/1348	IAEA Nuclear Security Series No. 9: Security in the Transport of Radioactive Material	2008		SSR-6: Regulations for the Safe Transport of Radioactive Material	
STI/PUB/1387	IAEA Nuclear Security Series No. 11: Security of Radioactive Sources	2009	STI/PUB/1578	IAEA Safety Standards Series No. Radiation Protection and Safety of Radiation Sources: International Basic Safety standards:	2014

STI/PUB/1543	Safety Reports Series No. 71: Radiation Protection in Paediatric Radiology	2012	STI/DOC/010/466	Technical Reports Series No. 466: Technetium-99m Radiopharmaceuticals: Manufacture of	2008
STI/PUB/1417	Safety Reports Series No. 63: Release of Patients After Radionuclide Therapy	2009	STI/DOC/010/473	Kits Technical Reports Series No. 473: Nuclear Data for the Production of Therapeutic Radionuclides	2011
STI/PUB/1207	Safety Reports Series No. 40: Applying Radiation Safety Standards in Nuclear Medicine	2005			
STI/PUB/1118	Safety Reports Series No. 21: Optimization of Radiation Protection in the Control of Occupational Exposure	2002			
STI/PUB/1366	Safety Reports Series No. 60: Radiation Protection in Newer Medical Imaging Techniques: Cardiac CT	2009			
STI/PUB/1343	Safety Reports Series No. 58: Radiation Protection in Newer Medical Imaging Techniques: PET/CT	2008			
STI/PUB/1294	Technical Reports Series No. 457: Dosimetry in Diagnostic Radiology: An International Code of Practice	2007			
STI/DOC/010/454	Technical Reports Series No. 454: Quality Assurance for Radioactivity Measurement in Nuclear Medicine	2006			
STI/DOC/010/458	Technical Reports Series No. 458: Comparative Evaluation of Therapeutic Radiopharmaceuticals	2007			
STI/DOC/010/470	Technical Reports Series No. 470: Therapeutic Radionuclide Generators: 90Sr/90Y and 188W/188Re Generators	2009			
STI/DOC/010/471	Technical Reports Series No. 471: Cyclotron Produced Radionuclides: Guidelines for Setting Up a Facility	2009			
STI/DOC/010/468	Technical Reports Series No. 468: Cyclotron Produced Radionuclides: Physical Characteristics and Production Methods	2009			
STI/DOC/010/465	Technical Reports Series No. 465: Cyclotron Produced Radionuclides: Principles and Practice	2008			
STI/DOC/010/459	Technical Reports Series No. 459: Labelling of Small Biomolecules Using Novel Technetium-99m Cores	2007			

FORTHCOMING SCIENTIFIC MEETINGS SCHEDULED BY THE IAEA

2016

26th IAEA Fusion Energy Conference 17–22 October; Kyoto, Japan

Third International Conference on Nuclear Knowledge Management — Challenges and Approaches 7–11 November; Vienna, Austria

International Conference on the Safety of Radioactive Waste Management 21–25 November; Vienna, Austria

International Conference on Nuclear Security: Commitments and Actions 5–9 December; Vienna, Austria

2017

International Conference on Applications of Radiation Science and Technology (ICARST-2017) 24–28 April; Vienna, Austria

Third FAO/IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques 22–26 May; Vienna Austria

International Conference on the IAEA Technical Cooperation Programme: Sixty Years and Beyond — Contributing to Development 30 May–1 June; Vienna, Austria

International Conference on Topical Issues in Nuclear Installations Safety: Safety Demonstration of Advanced Water Cooled Nuclear Power Plants 6–9 June; Vienna, Austria

International Conference on Advances in Radiation Oncology (ICARO-2) 20–23 June; Vienna Austria

International Conference on Fast Reactors and Related Fuel Cycles: Next Generation Nuclear Systems for Sustainable Development (FR17) 26–29 June; Yekaterinburg, Russian Federation

Scientific Forum 19-20 September 2017; Vienna, Austria

Fourth International Conference on Nuclear Power Plant Life Management 23-28 October; France

Ministerial Conference on Nuclear Power in the 21st Century 30 October–1 November; Abu Dhabi, UAE

International Conference on Physical Protection of Nuclear Material and Nuclear Facilities 13–17 November; Vienna, Austria

International Conference on Radiation Protection in Medicine 11–15 December: Vienna, Austria

For information on forthcoming scientific meetings, please consult the IAEA web site: http://www.iaea.org/

NOTES NOTES

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