

**INTERNATIONAL ORGANIZING COMMITTEE:**

H. Amaral, Chile  
T. Bokulić, Croatia  
H.H. Coenen, Germany  
F. Roesch, Germany  
M. Schwaiger, Germany  
E. Bombardieri, Italy  
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N. Tamaki, Japan  
C. Locharernkul, Thailand  
C. Anderson, USA  
P. Conti, USA

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M. Dondi, IAEA  
M. Haji-Saeid, IAEA  
R. Kamel, IAEA  
N. Ramamoorthy, IAEA  
E. Saalminen, IAEA  
K.K. Solanki, IAEA

**LOCAL ORGANIZING COMMITTEE:**

C. Suwanwela, Chairman  
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C. Nuchprayoon  
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V. Rattanamat  
T. Khuhaprema  
A. Sumanaseni  
B. Ponpanich  
P. Manoharn  
V. Srisupan  
K. Kittichaisaree

L. Pochanugool  
P. Thajchayapong  
P. Pattaranutaporn  
C. Auewarakul  
T. Chaiwatanarat  
A. Krisanachinda  
R. Ruttanaphani  
M. Aramrattana  
A. Thananun

R. Chanachai, Secretary of the Committee  
V. Kavisarasai, Assistance Secretary

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## OVERVIEW

### Saturday, 10 November 2007

14:00–16:30 Registration  
16:30–18:40 Opening Session  
19:00–19:30 Cultural Programme  
19:30–21:30 Reception

### Sunday, 11 November 2007

08:00–09:00 CME – Basic PET  
09:00–10:30 PET Oncology I  
**10:30–11:00 Coffee/Tea Break**  
11:00–12:30 PET Oncology II  
**12:30–14:00 Lunch Break**  
14:00–15:30 Presentations and Panel Discussion:  
Challenges in Setting-up a PET Programme  
**15:30–16:00 Coffee/Tea Break**  
16:00–17:30 PET Oncology III

### Monday, 12 November 2007

08:00–09:00 CME – Radiopharmacy  
09:00–10:30 Radiopharmacy  
**10:30–11:00 Coffee/Tea Break**  
11:00–12:30 Practical Aspects of Multimodality Imaging  
**12:30–14:00 Lunch Break**  
14:00–15:30 Interactive Parallel Poster Sessions  
**15:30–16:00 Coffee/Tea Break**  
16:00–17:40 Physics Quality Control and Protocol  
Standardization  
18:30–20:30 Reception

### Tuesday, 13 November 2007

08:00–09:00 CME – Image Interpretation  
Neurology & Cardiology  
09:00–10:15 PET Neurology  
**10:15–11:00 Coffee/Tea Break**  
11:00–12:30 PET Cardiology  
**12:30–14:00 Lunch Break**  
14:00–15:30 SPECT in the PET Era  
**15:30–16:00 Coffee/Tea Break**  
16:00–17:30 Presentations and Panel Discussion:  
Training & Education

### Wednesday, 14 November 2007

08:00–09:00 CME – Therapy Assessment and Planning  
09:00–10:30 PET: Therapy Prediction/Assessment  
**10:30–11:00 Coffee/Tea Break**  
11:00–12:30 Closing Session:  
Highlights  
Future Directions  
Closing Remarks

### IAEA Secretariat:

Scientific Secretaries: M. Dondi  
M. Haji-Saeid  
K. Solanki  
Conference Coordinators: H. Schmid  
R. Perricos  
Administrative Support: D. Umgeher

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### Local Coordinator:

Rujaporn Chanachai  
Chulabhorn Cancer Centre  
Thailand

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### Location of the Conference:

Convention Center, Chulabhorn Research Institute  
54 Moo 4 Vibhavadee-Rangsit Highway  
Bangkok 10210, Thailand  
Tel: (66)29848820-34  
Fax: (66)29848665

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**Working Language:** English

**Resolutions:** No resolutions may be submitted for  
consideration on any subject; no votes  
will be taken.

## SATURDAY, 10 NOVEMBER 2007

**14:00–16:30 Registration**

**16:30–18:40 Opening Session**

**Chair:** M. Dondi, IAEA  
**Co-Chair:** V. Rattanamart,  
President, Thai Nuclear  
Medicine Society

**Opening of the Conference:**

W. Burkart, IAEA  
Deputy Director General,  
Head of the Department of  
Nuclear Sciences and Applications

**Professional Societies:**

P. Conti, Society of Nuclear Medicine  
(SNM)  
A. Cuocolo, European Association of  
Nuclear Medicine (EANM)  
J. Czernin, Academy of Molecular Imaging  
(AMI)  
A. Malhotra, Asia Oceania Federation of  
Nuclear Medicine & Biology  
(AOFNMB)  
A. Ellmann, World Federation of  
Nuclear Medicine & Biology  
(WFNMB)

**Opening Statement:**

Her Royal Highness  
Princess Chulabhorn Mahidol

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
(17:20)	HRH Princess Chulabhorn Mahidol	Thailand	Genetic Alterations in Cancer: Key to Future Therapy
(17:50)	W. Burkart	IAEA	PACT: IAEA's New Approach to Cancer Management
001 (18:20)	Y. Sasaki	Japan	Overview on Impact of PET at the General Public Level ( <i>invited</i> )

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**19:00–19:30 Cultural Programme**

**19:30–21:30 Reception hosted by the Host Government**

## SUNDAY, 11 NOVEMBER 2007

**08:00–09:00**    **CME – Basic PET**  
**Chair:**    **H. Moustafa, Egypt**

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
001CME (08:00)	P. Conti	USA	How FDG works: Basic Skills in Image Interpretation ( <i>invited</i> )
002CME (08:30)	H.A. Macapinlac	USA	Image Interpretation Oncology ( <i>invited</i> )

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**09:00–10:30**    **PET Oncology I**  
**Chair:**    **E. Bombardieri, Italy**  
**Co-Chair:** **H.A. Macapinlac, USA**

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002 (09:00)	P. Conti	USA	Lung Cancer ( <i>invited</i> )
003 (09:20)	<b>S. Stroobants</b> L. Brepoels G. Verhoef	Belgium	Value of PET and PET-CT in the management of lymphoma ( <i>invited</i> )
004 (09:40)	H.A. Macapinlac	USA	Melanoma ( <i>invited</i> )
005 (10:00)	<b>R. Kumar</b> M. Chawla M. Nadig H. Dhanapathi C.S. Bal, et al.	India	PET-CT for Evaluation of Chemotherapy Response in Patients with High-grade Lymphomas
006 (10:15)	F. Redondo <b>C. Suarez</b> R. Pruzzo H. Amaral	Chile	Evaluation of Pulmonary Tumors with <sup>18</sup> F-FDG PET/CT

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**10:30–11:00**    **Coffee/Tea Break**

SUNDAY, 11 NOVEMBER 2007 (cont'd)

**11:00–12:30 PET Oncology II**

**Chair: S. Stroobants, Belgium**

**Co-Chair: A. Malhotra, India**

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
007 (11:00)	T.F. Hany	Switzerland	PET/CT in Colorectal and Gastro-Intestinal Tumors ( <i>invited</i> )
008 (11:20)	J.-K. Chung	Korea, Republic of	FDG PET in Head & Neck and Thyroid Cancers ( <i>invited</i> )
009 (11:40)	E. Bombardieri	Italy	Breast Cancer ( <i>invited</i> )
010 (12:00)	<b>G. Wang</b> E.W.F. Lau R. Shakher R.E. Ware E. Hong, et al.	China Australia	The Clinical Significance of <sup>18</sup> F-FDG PET/CT on Patients with Nasopharyngeal Carcinoma
011 (12:15)	S. Pathak <b>V. Rangarajan</b> N.C. Purandare S. Shah N. Singh, et al.	India	Impact of Whole Body PET CT in Staging Patients of Carcinoma Esophagus

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**12:30–14:00 Lunch Break**

SUNDAY, 11 NOVEMBER 2007 (cont'd)

**14:00–15:30 Presentations and Panel Discussion:  
Challenges in Setting-up a PET Programme:  
Developing Countries – Experience**  
**Chair: M. Dondi, IAEA**  
**Co-Chairs: M. Haji-Saeid/R. Kamel, IAEA**

<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
	M. Dondi	IAEA	Introductory Comments / PET around the World
012	C. Lochareernkul	Thailand	Challenges in Setting-up a PET Programme: Thailand Experience ( <i>invited</i> )
013	M.A. Abdul Khader	Malaysia	Challenges in Setting-up a PET Programme: Experience from Malaysia ( <i>invited</i> )
014	H. Amaral	Chile	Challenges and Setting-up a PET Programme in Chile ( <i>invited</i> )
015	<b>A. Ellmann</b> M.M. Sathekge	South Africa	Challenges in Setting-up a PET Programme – South African Experience ( <i>invited</i> )
016	J. Czernin	USA	Economics of PET service ( <i>invited</i> )
	Discussions		

**15:30–16:00 Coffee/Tea Break**

**16:00–17:30 PET Oncology III**  
**Chair: P. Conti, USA**  
**Co-Chair: K.J. Langen, Germany**

017 (16:00)	J.G. Gelovani	USA	Emerging Clinical PET Tracers for Oncology (FLT, Choline, Acetate) ( <i>invited</i> )
018 (16:20)	J. Czernin	USA	Molecular Imaging in Quality Health Care ( <i>invited</i> )
019 (16:40)	R.P. Baum	Germany	Receptor PET/CT with Ga-68 labeled somatostatin analogues for the diagnosis, staging and restaging of patients with neuroendocrine tumors undergoing peptide receptor radionuclide therapy – current status and future perspectives ( <i>invited</i> )
020 (17:00)	<b>B. Malkowski</b> T. Pietrzak A. Nowakowska A. Kachniarz M. Grabiec	Poland	The Value of the PET/CT FDG in the Diagnostics of Ovarian Cancer in Patients with an Increased Level of Ca 125 Marker
021 (17:15)	<b>N.Ö. Küçük</b> M. Kizil E. Özkan E. Soykan G. Aras, et al.	Turkey	PET/CT Imaging in Multiple Myeloma; Ankara University Experience - Preliminary Results

## MONDAY, 12 NOVEMBER 2007

**08:00–09:00**    **CME – Radiopharmacy**  
**Chair:**    **M. Haji-Saeid, IAEA**

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
003CME (08:00)	S.W. Schwarz	USA	Comparison of National PET Radiopharmaceutical Regulations ( <i>invited</i> )
004CME (08:30)	<b>Y. Fujibayashi</b> T. Mori S. Kasamatsu	Japan	Quality Assurance/Quality Control of PET Radiopharmaceuticals ( <i>invited</i> )

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**09:00–10:30**    **Radiopharmacy**  
**Chair:**    **M. Haji-Saeid, IAEA**  
**Co-Chair:** **Y. Fujibayashi, Japan**

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022 (09:00)	C.J. Anderson	USA	A New Generation of Radiometal-based Radiopharmaceuticals for PET Oncological Imaging ( <i>invited</i> )
023 (09:20)	H.H. Coenen	Germany	Chemistry of Potent Tracers for PET Studies of Neuronal Functions ( <i>invited</i> )
024 (09:40)	F. Rösch	Germany	The <sup>68</sup> Ge/Ga Radionuclide Generator: Processing and Potential for Radiopharmaceutical Chemistry and Nuclear Medicine ( <i>invited</i> )
025 (10:00)	<b>S.K. Nandy</b> M.G.R. Rajan A. Korde P.S. Soni	India	Synthesis of [ <sup>18</sup> F] Fluoromisonidazole using a General Purpose Fluorination Module and Combination Purification Column
026 (10:15)	<b>G.-J. Beyer</b> J.J. Čomor	Germany Serbia	The Potential of PET Cyclotron Installations for the Production of uncommon Positron Emitting Isotopes

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**10:30–11:00**    **Coffee/Tea Break**

MONDAY, 12 NOVEMBER 2007 (cont'd)

**11:00–12:30 Practical Aspects of Multimodality Imaging**  
**Chair: A. Bischof Delaloye, Switzerland**  
**Co-Chair: T. Chaiwatanarat, Thailand**

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
027 (11:00)	D.W. Townsend	USA	PET/CT - Current Status ( <i>invited</i> )
028 (11:20)	G. El Fakhri	USA	Development in SPECT Technologies ( <i>invited</i> )
029 (11:40)	O. Israel	Israel	Update on Clinical SPECT/CT Applications ( <i>invited</i> )
030 (12:00)	<b>M.A. Guirao</b> M. Namias C. Llina R. Isoardi	Argentina	Combined PET-CT and PET-MRI Imaging from Non hybrid Cameras: Protocol Approaches and Clinical Experience
031 (12:15)	S. Shah <b>V. Rangarajan</b> N.C. Purandare N. Singh S. Pathak, et al.	India	Justification of a Whole Body PET CT Study in Post-treatment Assessment of Nasopharyngeal Carcinoma

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**12:30–14:00 Lunch Break**



MONDAY, 12 NOVEMBER 2007 (cont'd)

**14:00–15:30 Interactive Parallel Poster Sessions**

**POSTER SESSION I – Clinical PET**

**Chair: H.A. Macapinlac, USA**

<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
100p	F. Redondo R. van Cauwelaert R. Pruzzo <b>H. Amaral</b>	Chile	$^{18}\text{F}$ -FDG PET/CT in the Evaluation of Transitional Cell Carcinoma of the Upper Urinary Tract
101p	R. Pruzzo H. De La Fuente E. Waugh F. Redondo <b>H. Amaral</b> , et al.	Chile	$^{18}\text{F}$ -FDG PET/CT in the Evaluation of Gallbladder Carcinoma - Initial Experience
102p	<b>M.J. Jofré</b> L.T. Massardo J. Canessa P. Sierralta P. González	Chile	Usefulness of FDG - PET in the Evaluation of Patients with Colon and Rectal Cancer in a PET Center in Chile
103p	<b>L.T. Massardo</b> M.J. Jofré J. Canessa P. Sierralta P. González, et al.	Chile	Gastrointestinal Stromal Tumors (GIST) Assessment using $^{18}\text{F}$ -Fluor-Deoxyglucose
104p	<b>S. Gao</b> Z.-G. Li D.-C. Li Y.-S. Li	China	The Value of $^{18}\text{F}$ -FDG PET Imaging in the Differential Diagnosis of Parkinsonian Disorders Using Statistical Parametric Mapping Method
105p	X. Li Y. Yin Y. Li	China	The Clinical Value of the Qualitative and Semiquantitative $^{18}\text{F}$ -FDG PET/CT in the Detection of Primary Breast Cancer and Lymph Node Metastasis
106p	<b>Y. Yin</b> X. Li Y. Li	China	The Study of the Impact of Breast Density on $^{18}\text{F}$ -FDG PET Detectability of Breast Cancer: Comparison with Mammography
107p	<b>Z. Zhu</b> F. Li W. Cheng X. Cheng	China	Experiences on Improving Diagnostic Accuracy of FDG PET by Characterizing, Reducing, and Avoiding the High-Level Physiological Uptakes at Abdomen and Pelvic Region
108p	<b>C. Zuo</b> Y. Guan Z. Huang J. Zhao	China	The Combined Use of $^{11}\text{C}$ -Choline and $^{18}\text{F}$ -FDG PET in the Diagnosis of Brain Tumor

<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
109p	<b>D. Dodig</b> D. Huić A. Mutvar I. Radman D. Grošev, et al.	Croatia	The Value of F-18-FDG triple-head coincidence PET in the Post-treatment Evaluation of Patients with Lymphoma
110p	J.P. Oliva González <b>R.P. Baum</b>	Cuba Germany	Dual Tracer/Dual Isotope Ga-68 DOTA-NOC and F-18 FDG PET/CT - A one Day Protocol in a Child with Neuroblastoma for Determining the Receptor Status and the Metabolic Tumor State
111p	<b>P. Koranda</b> M. Mysliveček E. Buriánková R. Formánek	Czech Republic	<sup>18</sup> F-FDG PET/CT in Patients with Neuroendocrine Tumors
112p	K. Taalab <b>H. Farag</b>	Egypt	Experience and Role of FDG-PET Lymphoma Imaging in Egypt
114p	<b>A. Agrawal</b> N. Nair U.N. Nayak	India	Does FDG PET help in Preoperative Management of a Thyroid Nodule?
115p	<b>A. Agrawal</b> N. Nair	India	Can Brown Fat Uptake of 18F-FDG be Reduced by Beta-Blockers?
116p	S. Shah <b>V. Rangarajan</b> N.C. Purandare N. Singh S. Pathak, et al.	India	Yield of PET CT in Evaluating Cases of Medullary Carcinoma Thyroid with Elevated Calcitonin Levels
117p	N. Singh <b>V. Rangarajan</b> N.C. Purandare S. Shah S. Pathak, et al.	India	Impact of FDG PET/CT in Management of Patients with recurrent Breast Cancer - Initial Experience
118p	<b>B. Malkowski</b> K. Pluzanska T. Pietrzak A. Petrus J. Siekiera	Poland	The Comparison of the CT and PET/CT FDG in the Diagnostics of Testicular Cancer
119p	<b>B. Malkowski</b> W. Zegarski J. Dzierzawski K. Kula J. Jaroszek, et al.	Poland	The Comparison of the CT and PET/CT FDG in the Diagnostics of Colon Cancer in Patients with an increased level of CEA Marker

<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
120p	<b>B. Malkowski</b> B. Jurczynszyn T. Pietrzak A.B. Skotnicki	Poland	Initial Polish Experience in the Diagnostic Utility of 18-FDG PET in the Assessment of Patients with Multiple Myeloma
122p	<b>B.M. Magsombol</b> U. Pua A.K. Padhy A. Goh D. Ng, et al.	Singapore	Role of FDG-18 PET/CT in the Diagnosis of Unknown Primary Cancer
123p	<b>C. Chotipanich</b> C. Sritara S. Chiewvit P. Sirimas S. Phongkitkarun, et al.	Thailand	Unexplained Rising Carcinoembryonic Antigen (CEA) and the Utility of F18-FDG PET-CT in Recurrent Colorectal Cancer: Preliminary Experiences in Thailand
124p	<b>K. Kingpetch</b> S. Sirisalipoch S. Tepmongkol T. Chaiwatanarat	Thailand	<sup>18</sup> F-FDG Scan in Well-Differentiated Thyroid Cancer Patients with Increased Thyroglobulin Antibody but Negative I-131 Total Body Scan
125p	<b>F. Dede</b> T. Ones T.Y. Erdil H.T. Turoglu B. Unalan	Turkey	Bilateral Pheochromocytomas and Neuroendocrine Tumor of Pancreas Demonstrated with FDG-PET/CT in a Patient with von Hippel-Lindau Syndrome: A Case Report
194p	<b>H. Moustafa</b> Kh. Taalab A. Saleh	Egypt	The Role of FDG-PET Imaging in Lymphoma (Egyptian Experience in 460 Cases)
196p	<b>S. Chiewvit</b> C. Chotpranit	Thailand	Is Screening <sup>18</sup> F FDG PET/CT Scan appropriate in Unknown Primary with Rising Tumour Marker and Normal Conventional Imaging?

**POSTER SESSION II – Clinical SPECT**

**Chair: I. Roca, Spain**

126p	<b>V.E. Soroa</b> M. del H. Velazquez Espeche C.A. Giannone	Argentina	SPECT in PET era: Do Gamma Cameras still have a Role in the Oncological Diagnosis and Management?
127p	<b>S.B. Sergieva</b> K.V. Timcheva N.D. Hadjiolov	Bulgaria	Role of Planar and SPECT <sup>99m</sup> Tc-MIBI Scintigraphy in Breast Cancer Patients before and after Neoadjuvant Chemotherapy

<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
128p	<b>J. Tang</b> Z. Liu Y. Yang	China	The Primary Clinical Application Study of Technetium-99m Labeled Ethylenedicysteine-Deoxyglucose in Tumor Glucose Metabolic Imaging
129p	<b>N. Delgado Lopez</b> M. Martinez A. De Los Reyes A. Llamas	Colombia	Preliminary Results of the Evaluation of 99mTc-EDDA/HYNIC-Tyr <sup>3</sup> -Octeotide Prepared from Lyophilized Kits Vs 111 In-DTPA-Octeotide with SPECT Images in Patients with Metastatic Neuroendocrine Tumors in the National Cancer Institute of Bogota-Colombia
130p	<b>O. Grisales Jaramillo</b> J. Ahumada L. Cadavid A. Romero	Colombia	Carcinoid Tumours, Diagnosis and Staging Using 111-In DTPA Octreotide - Preliminary Experience
131p	<b>L.S. Veloza Salcedo</b> M.C. Mejia	Colombia	Internal Dosimetry of Iodine 131 Using SPECT Images in Patients with Thyroid Carcinoma in the Instituto Nacional de Cancerologia, Bogota, Colombia
132p	<b>A. Dimitrakopoulou- Strauss</b> P. Hohenberger S. Koukouraki V. Georgoulis M. Eisenhut, et al.	Germany Greece Germany	Use of Ga-68-Labeled Peptides and PET for Diagnosis and Therapy Monitoring in Oncological Patients
133p	<b>A. Bhattacharya</b> B.R. Mittal B. Singh Y. Raghavendra Babu K.M. Pradeoth, et al.	India	Tc99m-Sestamibi Scintimammography: Usefulness of Semi-Quantitative Evaluation
134p	<b>A. Bhattacharya</b> B.R. Mittal B. Singh K.M. Pradeoth J.D. Wig	India	Differential Radiotracer Uptake Patterns on Dual Phase Scintimammography
135p	<b>S. Padma</b> P. Shanmuga Sundaram S. Kumar P. Kumar	India	Incremental Value of Technetium MIBI SPECT, MR Fusion Imaging in Evaluation of Intracranial Space occupying Lesions
136p	<b>M. Parmar</b> H.V. Sunil A. Bhattacharya B. Singh B.R. Mittal	India	Tc99m DMSA-V Scintigraphy in Post-operative Follow-up of Patients with Medullary Thyroid Carcinoma

<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
137p	<b>R.A. Cano</b> R.E. Morales A. García G. Salvatierra J. Márquez, et al.	Peru	Usefulness of SPECT in Sentinel Node Localisation
138p	<b>E. Dziuk</b> N. Szalus G. Kaminski J. Pietrzykowski	Poland	<sup>99m</sup> Tc-HYNIC-TATE Receptor Imaging and Computed Tomography (CT) in Neuroendocrine Tumour Imaging
139p	<b>A. Kazmierczak</b> E. Dziuk	Poland	Myocardial Perfusion gated SPECT in Women with Positive Stress Test
140p	<b>E. Dziuk</b> G. Kaminski M. Dziuk	Poland	Assessment of Cardiovascular System in Subclinical Hyperthyroidosis
142p	<b>M. Gherghe</b> G. Aron E. Radu O. Zara	Romania	Myocardial Perfusion Imaging - A Possible Role in Revealing Endothelial Dysfunction in Patients with Angina and Normal Coronary Angiogram
143p	<b>A. Rimbu</b> S.T. Ghita C. Mazilu R.M. Mititelu P. Murgoci, et al.	Romania	Value of <sup>99m</sup> Tc-MIBI Brain SPECT in Differentiating Recurrence and Radiotherapy Effects in Tumors Brain Patients
146p	<b>A. Dustov</b> A. Karimov	Tajikistan	Molecular Nuclear Medicine in the Management of Thyroid Cancer
147p	<b>R. Diakite</b> A. Mhiri S. Sidibe M.F. Ben Slimene	Mali Tunisia Mali Tunisia	Treatment of Painful Bony Metastasis of Prostatic Cancer by Samarium 153 (Quadramet®)

MONDAY, 12 NOVEMBER 2007 (cont'd)

**POSTER SESSION III – Radiopharmacy**  
**Chair: S.W. Schwarz, USA**

<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
148p	<b>M. Nader</b>	Austria	Multi-Tracer Syntheses at a Radiopharmaceutical Production Centre "A Shift of Paradigm"
149p	<b>D. Bemelmans</b> A.C.F. Sobreira	Brazil	Transport of Radioactive Materials of Short Half-Life
150p	<b>R. Santos Oliveira</b> S.W. Smith A.M.A. Carneiro Leão	Brazil USA Brazil	Implication of Amendment 49 in Brazilian Radiopharmacy
151p	<b>L. Rojo Castillo</b> M. Avila M. Chandia R. Becerra R.B. Maccioni	Chile	<sup>18</sup> F-Lansoprazole: Chemical and Biological Studies Towards the Development of a New PET Radiotracer
152p	<b>Y. Li</b> W. Yan L. Cai S. Gao	China	Automatic Synthesis of [11C]Raclopride and Initial Clinical Application on Parkinson's Disease
153p	<b>G.P. Bandopadhyaya</b> J. Shukla R. Kumar C.S. Bal	India	Radiolabelled Oligosaccharide Probes: An Approach for Infection Imaging
154p	<b>S. Lata</b> N. Naswa C.S. Bal A. Malhotra	India	Radiolabelling of DOTA-Derivatized Peptide D-phe <sup>1</sup> -Tyr <sup>3</sup> -Octreotide (TOC) with <sup>68</sup> Gallium: Initial Experience
155p	<b>S.K. Nandy</b> M.G.R. Rajan A. Korde P.S. Soni	India	Preliminary Studies on a Rapid Radiosynthesis Procedure for [ <sup>18</sup> F] FHBG Using a Non-HPLC Purification Technique
156p	M.G.R. Rajan <b>S.K. Nandy</b> P.S. Soni	India	Multi-Purpose Synthesis Module for Preparing [F-18]-Labeled Compounds
157p	<b>M. Gandomkar</b> R. Najafi M. Shafiei	Iran, Islamic Rep. of	Synthesis and in vitro/in vivo Evaluation of [ <sup>99m</sup> Tc-EDDA-HYNIC]-NATE as a New Radiopharmaceutical for Somatostatin Receptor Scintigraphy

<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
158p	<b>M. Sadeghi</b> M. Avila C. Tenreiro	Iran, Islamic Rep. of Chile	Cyclotron Production of No-Carrier-Added $^{64}\text{Cu}$ for Cancer Radiotherapy Agent and Positron Emission Tomography (PET)
159p	<b>M. Salouti</b> H. Rajabi M.H. Babaei M.J. Rasaei M. Shafiee, et al.	Iran, Islamic Rep. of	Estimating Tumor/Non-Tumor Uptake from Radiolabeled Monoclonal Antibodies, based on Scintigraphic Imaging to avoid Killing the Animal Models
161p	<b>J.S. Chai</b> D.H. An I.S. Jung J.S. Kang T.K. Yang, et al.	Korea, Republic of	Progress Report of Development of KIRAMS-30 Cyclotron for RI Productions in Korea
162p	<b>E. Janevik-Ivanovska</b> M. Angeleska M. Stojmirov B. Andonovski S. Miceva Ristevska	Macedonia, The Frmr.Yug.Rep. of	The Role of Iodine-131 MIBG and Technetium-99m DMSA(V) in Evaluation of Malignant Disease
164p	M.M. Saw	Singapore	Second-Generation $^{99\text{m}}\text{Tc}$ -Radiopharmaceuticals for Molecular Imaging Era
165p	S. Somanesan	Singapore	Disruption to daily PET Radiopharmaceutical Production arising from Cyclotron & Synthesis Module Problems, Corrective Actions taken and Associated Downtime
166p	F. Macášek	Slovakia	The Costs and Benefits of the Quality Management and Best Practice of [ $^{18}\text{F}$ ]FDG Manufacturing
167p	<b>O. Alonso</b> J.P. Gambini X. Zhang P. Cabral S. Figueroa, et al.	Uruguay USA Uruguay USA	Is Tc-99m Glucarate a Tracer of Tumor Necrosis? Comparison with F-18 FDG PET in a Breast Cancer Model and Preliminary Clinical Experience
168p	<b>J. Chang</b> J. Mullis M. Hyatt R. McKay J. Wells, et al.	USA	Quality Assurance on $\text{F}^{18}$ Production: Experience with GE II Target/Ion Source System for the Minitracer Cyclotron

MONDAY, 12 NOVEMBER 2007 (cont'd)

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
169p	<b>W. He</b> Y.-M. Yu D. Bischoff E. Carter R.G. Tompkins, et al.	USA	Measurement of Muscle and Whole Body (WB) Glucose Metabolism (GM) in vivo by Combined Stable Isotope (SI) and PET Techniques - Validation in an Animal Model
170p	<b>W. He</b> Y.-M. Yu D. Elahi R.G. Tompkins A.J. Fischman	USA	In vivo Measurements of Whole Body (WB) and Skeletal Muscle Glucose Metabolism under Basal and Euglycemic Insulin Clamp (Clamp) by Combined PET and Stable Isotope (SI) Tracer Studies
171p	<b>S.K. Sharma</b> G. Krause M. Ebadi	USA	Basic Requirements of Quality Control of PET Radiopharmaceuticals
195p	<b>M.K. Das</b> A.K. Kohli	India	Production of Cyclotron produced Radioisotopes in India

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**POSTER SESSION IV – Physics, Radiation Protection**

**Chair: D.W. Townsend, USA**

172p	L.C. Arribas S.L. Mosconi <b>F. Cismondi</b> C. Padín F. Da Ros, et al.	Argentina	Image Fusion Based on Images of SPECT and CT Modalities Acquired in Separated Scanners
173p	<b>C. Llina Fuentes</b> S. Mosconi	Argentina	PET-TAC Protocol Acquisition for Whole Body Corregistration
174p	<b>L.G. Strauss</b> S. Klippel D. Koczan L. Pan C. Cheng, et al.	Germany	Fusion of PET and Molecular Biology: Combined Assessment of Quantitative Dynamic PET Data and Gene Array Results Using the GenePET software



MONDAY, 12 NOVEMBER 2007 (cont'd)

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
175p	<b>L.G. Strauss</b> D. Koczan L. Pan C. Cheng U. Haberkorn, et al.	Germany	Quantitative, Dynamic PET for the Detection and Differentiation of Bone Lesions
176p	<b>S. Pellet</b> L. Ballay	Hungary	Hungarian Experiences with PET/CT Applications from a Radiation Protection Point of View
178p	I. Bahnarel <b>L. Coretchi</b> N. Dimov	Moldova, Republic of	Quality Control and Quality Assurance in Radiation Medicine in the Republic of Moldova
180p	<b>P. Çelik</b> U. Pietrzyk G. Capa Kaya M. Khodaverdi	Turkey Germany Turkey Germany	Software Module Development for High Resolution PET Systems

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**POSTER SESSION V – Emerging PET Programmes**

**Chair: H. Amaral, Chile**

181p	<b>M. Namías</b> D.J. Passadore G. Scarpignato A. Durán E. Obenaus, et al.	Argentina	Experience of Setting in Operation a PET/CT-Cyclotron Facility in Argentina
182p	<b>L. Nisa</b>	Bangladesh	Prospect of PET-CT in a Developing and Transition Economy like Bangladesh
183p	<b>M. Figols de Barboza</b> N.T.O. Fukumori R. Herrerias L.C. Sumiya W. Bruzinga, et al.	Brazil	Brazilian Experience in the Production of <sup>18</sup> F-FDG
184p	<b>P.S. Soni</b> M.G.R. Rajan B.K. Sharma A.K. Kohli	India	Maintenance & Operational Aspects of Medical Cyclotron Facility - Indian Experience

MONDAY, 12 NOVEMBER 2007 (cont'd)

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
185p	<b>E. Janevik-Ivanovska</b> S. Miceva Ristevska V. Lazarevik A. Arnikov S. Petrov	Macedonia, The Frmr.Yug.Rep. of	Feasibility Study for PET - The Right Choice for Establishing PET in Emerging Countries
186p	A. Qureshy	Pakistan	Establishing the First PET & Cyclotron Facility in Pakistan - Experiences of a Third World Country
188p	<b>G.G. Shimchuk</b> V.A. Kiselev A.V. Sidorov O.A. Shtukovsky E.P. Derevjanko	Russian Federation	Development of Russian's Industrial and Technological Resources required to produce PET Center Equipment
189p	F. Mut Bastos	Uruguay	Positron Emission Tomography and Related Technology in Latin- America: Current Situation, Prospects, and Needs
197p	<b>G.S. Limouris</b> M. Lyra V. Kamenopoulou S. Vogiatzi A. Stavraka	Greece	A Window on Greece (Experience, Present State of PT/CT Scan Facilities and Reimbursement Policy)

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**POSTER SESSION VI – Training & Education**

**Chair: A. Ellmann, South Africa**

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190p	R. Jaimovich <b>L.T. Massardo</b> P. González I. Alliende	Chile	Quality Control and Learning Experience in Clinical Nuclear Cardiology at a Teaching Hospital Facility
191p	<b>S. Nazarenko</b> K. Goldstein	Estonia	Training Management at Establishing a PET/CT Service in a Country with Limited Economic Resources
192p	<b>T.N.B. Pascual</b> J.F.Y. Santiago	Philippines	Cooperative Learning in the Modern Era of PET Imaging Education and Training: Philippine Experience
193p	M.M. Saw	Singapore	Designing an University-Level Module on Molecular Imaging Chemistry

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**15:30–16:00**     **Coffee/Tea Break**

MONDAY, 12 NOVEMBER 2007 (cont'd)

**16:00–17:40      Physics Quality Control and  
Protocol Standardization**

**Chair:      D.W. Townsend, USA**

**Co-Chair: G. El Fakhri, USA**

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
032 (16:00)	A.A. Lammertsma	Netherlands	Protocol Standardisation ( <i>invited</i> )
033 (16:20)	<b>G. El Fakhri</b> M. Marengo R. Fulton B.E. Zimmerman J. Gray, et al.	USA Italy Australia USA	PET/CT Instrumentation: Quality Assurance and Quality Control ( <i>invited</i> )
034 (16:40)	<b>D. Schlyer</b> P. Vaska C. Woody S.R. Maramraju D. Tomasi, et al.	USA	Simultaneous PET/MRI in Breast Cancer: Development of the Technology
035 (16:55)	<b>R.A. Isoardi</b> E.R. Noya S. Baigorria S.L. Mosconi	Argentina	PET in Argentina: A Pioneer Project in Latin America
036 (17:10)	<b>P. Pasawang</b> T. Sontrapornpol C. Navikacheevin A. Krisanachinda	Thailand	Performance Evaluation of a Biograph 16 Hi-Rez PET Scanner at King Chulalongkorn Memorial Hospital
037 (17:25)	<b>H.R. Ham</b> J. Keppens A. Dobbeleir I. Goethals	Belgium	F18-FDG-PET Reconstruction: Slice Thickness for Optimal Resolution

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**18:30–20:30      Reception hosted by the IAEA**

## TUESDAY, 13 NOVEMBER 2007

**08:00–09:00**    **CME – Image Interpretation  
Neurology & Cardiology**  
Chair:    **M. Dondi, IAEA**

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
005CME (08:00)	A. Cuocolo	Italy	Single-photon Emission Computer Tomography (SPECT) and Positron Emission Tomography (PET) Imaging in Cardiology <i>(invited)</i>
006CME (08:30)	S. Minoshima	USA	Image Interpretation: Neurology (SPECT and PET) <i>(invited)</i>

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**09:00–10:15**    **PET Neurology**  
Chair:    **S. Vinjamuri, United Kingdom**  
Co-Chair: **S. Minoshima, USA**

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038 (09:00)	<b>K.J. Langen</b> F.W. Floeth D. Pauleit G. Stoffels K. Hamacher, et al.	Germany	Brain Tumor Diagnostics using <sup>18</sup> F-labelled Amino Acids and PET <i>(invited)</i>
039 (09:20)	S. Minoshima	USA	PET in Epilepsy <i>(invited)</i>
040 (09:40)	<b>S. Vinjamuri</b> C.N. Ramesh	United Kingdom	PET Scanning in Neurodegeneration <i>(invited)</i>
042 (10:00)	<b>S. Tepmongkol</b> C. Locharenkul C. Limotai J. Loplumert T. Chaiwatanarat, et al.	Thailand	How FDG-PET helps making Decision for Surgery in various Difficult Subgroups of Temporal Lobe Epilepsy?

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**10:15–11:00**    **Coffee/Tea Break**

TUESDAY, 13 NOVEMBER 2007 (cont'd)

**11:00–12:30 PET Cardiology**

**Chair: N. Tamaki, Japan**

**Co-Chair: J. Soares, Jr., Brazil**

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
043 (11:00)	H.R. Schelbert	USA	Cardiac Metabolism Imaging ( <i>invited</i> )
044 (11:20)	N. Tamaki	Japan	Cardiac Perfusion Imaging ( <i>invited</i> )
045 (11:40)	M. Schwaiger	Germany	Imaging Peripheral Vascular Disease ( <i>invited</i> )
046 (12:00)	<b>B.P. Tiwari</b> P. Kand N. Nair	India	Myocardial Uptake of 18F-FDG in Wholebody PET Studies
047 (12:15)	<b>K. Knešaurek</b> O.D. Almeida J. Machac Z. Zhang D.J. Kim	AAPM	Determination of Regional Myocardial Blood Flow by <sup>82</sup> Rb PET Imaging

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**12:30–14:00 Lunch Break**

**14:00–15:30 SPECT in the PET Era**

**Chair: J.-K. Chung, Korea, Republic of**

**Co-Chair: K.J. Langen, Germany**

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048 (14:00)	I. Roca	Spain	SPECT and PET in paediatrics ( <i>invited</i> )
049 (14:20)	A. Kjaer	Denmark	SPECT Oncology Imaging ( <i>invited</i> )
050 (14:40)	N. Tamaki	Japan	SPECT Metabolic Imaging ( <i>invited</i> )
051 (15:00)	<b>P. Orellana Briones</b> A. Baeza V. Assef J.C. Quintana P. Olmos, et al.	Chile	Screening of Asymptomatic Patients with Type 2 Diabetes Mellitus for Silent Coronary Artery Disease with Stress Myocardial Perfusion Imaging
052 (15:15)	<b>J. Fettich</b> M. Hodolic S. Repse P. Peitl	Slovenia	The Value of 99m-Tc Octreotide SPECT to localise Neuroendocrine Tumours for Successful Surgical Treatment

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**15:30–16:00 Coffee/Tea Break**

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TUESDAY, 13 NOVEMBER 2007 (cont'd)

**16:00–17:30 Presentations and Panel Discussion:  
Training & Education**

**Chair: A. Ellmann, South Africa**

**Co-Chair: H.H. Coenen, Germany**

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
053	A. Bischof Delaloye	Switzerland	Issues on Training of Physicians/Technologists ( <i>invited</i> )
054	S.W. Schwarz	USA	Issues on Training of Radiochemists/Radiopharmacists ( <i>invited</i> )
055	G. El Fakhri	USA	Issues on Training of Medical Physicists ( <i>invited</i> )
056	<b>H.E. Patterson</b> N. Watanabe M. Dondi B.F. Hutton	Australia IAEA IAEA United Kingdom	Meeting Training Needs in PET/CT; Extending DAT for the 21st Century
	Discussions		

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## WEDNESDAY, 14 NOVEMBER 2007

### 08:00–09:00 CME – Therapy Assessment and Planning

Chair: F. Mut Bastos, Uruguay

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No. of Paper IAEA-CN-157/	Name	Designating Member State/Organization	Title
007CME (08:00)	H.A. Macapinlac	USA	Therapy Assessment & Planning in Lung Cancer ( <i>invited</i> )
008CME (08:30)	D.W. Townsend	USA	Essentials of PET/CT Computation and QA for Treatment Planning/Follow-Up ( <i>invited</i> )

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### 09:00–10:30 PET: Therapy Prediction/Assessment

Chair: H.A. Macapinlac, USA

Co-Chair: A.A. Lammertsma, Netherlands

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057 (09:00)	E. Bombardieri	Italy	Radiotherapy Planning ( <i>invited</i> )
058 (09:20)	<b>R.P. Baum</b> V. Prasad	Germany	Role of PET and PET/CT in the Assessment of Response to Chemotherapy ( <i>invited</i> )
063 (09:40)	<b>J.N. Talbot</b> V. Huchet K. Kerrou F. Gutman F. Montravers, et al.	France	Prostate Cancer – Assessment and Therapy Follow-up with PET ( <i>invited</i> )
059 (10:00)	<b>A. Dimitrakopoulou-Strauss</b> M. Hoffmann M. Uppenkamp J. Rudi M. Eisenhut, et al.	Germany	Therapy Monitoring based on FDG-PET follow-up Studies for the Prediction of Individual Survival
060 (10:15)	<b>P.S. Choudhury</b> E. Savio K.K. Solanki A. Gupta D. Doval, et al.	India Uruguay IAEA India	Importance of SPECT Imaging in the Assessment of Tumour Viability: Evaluation of an Indigenous Preparation of <sup>99m</sup> Tc-Glucarate

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### 10:30–11:00 Coffee/Tea Break

WEDNESDAY, 14 NOVEMBER 2007 (cont'd)

**11:00–12:30 Closing Session:**

**Chairs:** M. Dondi, IAEA  
C. Lochareernkul,  
Chulabhorn Cancer Centre  
**Co-Chair:** M. Haji-Saeid, IAEA

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<i>No. of Paper IAEA-CN-157/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title</i>
061 (11:00)	P. Conti	USA	Highlights ( <i>invited</i> )
062 (11:30)	M. Schwaiger	Germany	Clinical PET and Molecular Nuclear Medicine: Future Directions ( <i>invited</i> )
(12:00)	M. Dondi	IAEA	Closing Remarks
(12:05)	C. Lochareernkul	Thailand	Closing Remarks

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**12:30 Closing**



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### **2008**

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Int'l Symposium on Induced Mutations in Plants (ISIM),  
Vienna, 12-15 August

22<sup>nd</sup> IAEA Fusion Energy Conference,  
Geneva, October

Int'l Conference on Nuclear Security: Global Directions for the Future,  
December

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