

# Sunday 8 May 2005 - Afternoon

16:30 - 17:45

ROOM 1

## Opening Ceremony

Masters of Ceremony.

L. Salgado (Lisbon, PT) & A.M.S.L. Ventosa (Carnaxide, PT)

16:33	Welcome. J.J. Bax (Leiden, NL)	2
16:36	Guest speaker Dr. Rosa Araújo - Representative of the City of Lisbon.	3
16:46	First musical interlude	4
17:01	Remarks from the American Society of Nuclear Cardiology. F. Wackers (New Haven, US)	5
17:04	Remarks from the European Association of Nuclear Medicine. J.M. Knuuti (Turku, FI)	6
17:06	Remarks from the Portuguese Society of Nuclear Medicine. M. do Rosario Vieira (Lisbon, PT)	7
17:08	Remarks from the Portuguese Society of Cardiology. C. Abreu e Lima (Porto, PT)	8
17:10	Remarks from the European Society of Cardiology. F.J. Pinto (Lisbon, PT)	9
17:12	Second musical interlude	10
17:27	Lecture - "The art of Portuguese tiles" Professor Barros Veloso.	11
17:42	Final remarks. A. Sinusas (New Haven, US)	12

**Followed by the Opening Reception  
in the Exhibition Area  
17:45 - 18:30**

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

08:30 - 10:00

ROOM 1

**Non invasive imaging of the vulnerable patient**

**Advances in nuclear cardiology**

**Chairpersons: J.M. Knuuti (Turku, FI); B. Zaret (New Haven, US)**

08:30	Pathophysiology of the vulnerable plaque. U. Sechtem (Stuttgart, DE)	13
08:50	Role of nuclear techniques (SPECT and PET/CT). M. Schwaiger (Munich, DE)	14
09:10:	Role of cardiac CT and MRI. S. Schroeder (Tubingen, DE)	15
09:30	Role of intravascular detectors. H.W. Strauss (New York, US)	16
09:50	Discussion.	17

08:30 - 12:30

POSTER HALL

**Poster Session I Clinical General**

Posters must be set up between 08:00 and 08:30, removed between 12:30 and 13:00 and be on display between 08:30 and 12:30. The author should be present throughout the coffee break (10:00 - 11:00) in order to discuss the poster. The first five abstracts below will be discussed in a dedicated area in the poster hall during the Poster Forum chaired by the two chairpersons mentioned below.

**Chairpersons: C L. Hansen (Philadelphia, US); P. Nihoyannopoulos (London, GB)**

Dynamic I-123 MIBG SPECT reflects sympathetic nervous integrity and predicts clinical outcome in patients with chronic heart failure. Withdrawn

Y. Takeishi, T. Arimoto, I. Kubota (Yamagata, JP)

Association of myocardial adrenergic denervation to elevated proinflammatory cytokines levels in heart failure, secondary to idiopathic dilated cardiomyopathy. P 19

V. Prassopoulos, F. Parthenakis, A. Patrianakos, A. Velidaki, S. Koukouraki, E. Papadimitriou, G.F. Diakakis, H.E. Maurakis, N. Karakavitsas, P.E. Vardas (Athens, Crete, Heraklion, Marousi, Vironas-Athens, GR)

Myocardial repair by stem cell therapy. P 20

A. Peix, J. Hidalgo, E. Dorticos, L. Llerena Rojas, A. Paredes, C. Macias, L. Del Valle, L. Cortinas, M. Torres, F. Ponce (Havana, Vedado, CU)

Influence of diabetes mellitus on infarct size. Tc99m sestamibi perfusion study in patients with acute anterior myocardial infarction. P 21

J. Galcera Tomas, A. Caballero-Martinez, P. Jara-Perez, M. Villegas Garcia, L.A. Inigo-Garcia, J.A. Nuno De La Rosa, R. Florenciano Sanchez, J.F. Castillo-Soria, JA. Valenti-Aldeguer, F. Pico Aracil (El Palmar, Murcia, ES)

NT-proBNP in symptom limited exercise myocardial perfusion scintigraphy: sustained elevation after exercise and independent association with myocardial ischaemia extent. P 22

P.M. Van Der Zee, H.J. Verberne, J.P. Van Straalen, J.C. Fischer, G.T. Sanders, B.L.F. Van Eck-Smit, R.J. De Winter (Amsterdam, NL)

**Clinical General.**

**23**

Acute resting myocardial perfusion imaging: SPECTATE trial (SPECT in acute thoracic emergencies). P 24

A. Flotats, D. Obrador-Mayol, M. Puig, J.R. Serra Grima, J. Fuertes, E. Mena, V. Camacho, M. Estorch, M. Santalo, I. Carrio (Barcelona, ES)

Rest myocardial perfusion imaging and troponin I in the evaluation of chest pain patients. P 25

M. Ferreira, A.I. Ferrer-Antunes, V. Rodrigues, F. Santos, J.M. Pedroso Lima, M. Cerqueira, L.A. Providencia (Cleveland, US; Coimbra, PT)

Rest myocardial perfusion imaging in the evaluation of patients with chest pain: rest myocardial perfusion imaging and cardiac ischaemic events within 90-days of presentation. P 26

M. Ferreira, A.I. Ferrer-Antunes, V. Rodrigues, F. Santos, J.M. Pedroso Lima, M. Cerqueira, L.A. Providencia (Cleveland, US; Coimbra, PT)

Myocardial salvage index by thrombolysis in acute MI is inversely related to the "time to reperfusion" even within the 1st 6 hrs of MI: comparison with 1yr angioplasty. P 27

H. Awadalla, R. Hamed, M. Jamal, M. Rayan, A. Mahmoodi (Cairo, EG)

Development of myocardial microcirculation and metabolism in acute ST-elevation myocardial infarction evaluated with PET. P 28

J. Sorensen, G. Frostfeldt, B. Lindahl, S. Valind, L.C. Wallentin (Uppsala, SE)

Can intra-vascular radiation detector (IVRD) system detect unstable plaques using 18F-FDG (FDG) under background activity? Simulation study. P 29

N. Kambara, R. Hosokawa, M. Ohba, K. Saito, H. Motomura, T. Kanoi, N. Kume, H. Saji, T. Kita, R. Nohara (Kyoto, Odawara, Osaka, Sakado, Tokyo, JP)

- Radionuclide quantification of infarct size. Comparison of polar and transaxial slices methods with Tc99m sestamibi and Thallium-201. A study in patients with acute anterior myocardial infarction. P 30  
 J. Galcera Tomas, A. Martinez-Caballero, M. Villegas Garcia, J.F. Castillo-Soria, J.A. Valenti-Aldeguer, J.A. Nuno De La Rosa, R. Florenciano Sanchez, L. Inigo-Garcia, J.G. Sanchez Villanueva, P. Jara-Perez (El Palmar, Murcia, ES)
- 99mTc-HYNIC-annexin-V and 111In-antimyosin-antibody myocardial uptake after permanent coronary ligation and ischaemia-reperfusion in rats. P 31  
 L. Sarda-Mantel, J.-B. Michel, F. Rouzet, G. Martet, L. Louedec, O. Raguin, J.M. Vrigneaud, G. Saumon, B.A. Khaw, D. Le Guludec (Boston, US; Paris, FR)
- Early ST-segment resolution successfully detects TIMI-III flow in the infarct related artery, correlation with the myocardial salvage index and validation by coronary arteriography. P 32  
 O. Awaad, S. El Demerdash, A. Adel, M. Abdel Kader, H. Awadalla (Cairo, EG)
- Tc99m sestamibi perfusion defect in the prediction of patency of the infarct related artery. Study in patients with acute anterior myocardial infarction. P 33  
 J. Galcera Tomas, A. Caballero-Martinez, J.A. Nuno De La Rosa, L. Inigo-Garcia, R. Palop, J.F. Castillo-Soria, F. Pico Aracil, P. Jara-Perez, M. Villegas Garcia, R. Florenciano Sanchez (El Palmar, Murcia, ES)
- Large infarct size and electrocardiographic reperfusion criteria. A study with Tc99m sestamibi in anterior acute myocardial infarction treated with fibrinolysis. P 34  
 J. Galcera Tomas, I. Lopez-Martinez, A. Caballero-Martinez, J.A. Nuno De La Rosa, J.A. Valenti-Aldeguer, J.F. Castillo-Soria, P. Jara-Perez, J. Contreras Gutierrez, R. Florenciano Sanchez, M. Villegas-Sanchez (El Palmar, Murcia, ES)
- Evaluation of myocardial perfusion in hypothyroid patients. P 35  
 S Ray, R. Dey, N R, Sarma. S K (Kolkata, IN)
- Role of rest/stress myocardial perfusion image on the chest pain unit. P 36  
 J.C. Azevedo, R. Felix, P.L. Correa, G.B. Barbirato, E. Mesquita, A. Volschan, H.F. Dohmann, C.T. Mesquita (Niteroi, Rio de Janeiro, BR)
- Epicardial fat: an unrecognised source of attenuation on nuclear perfusion scans. P 37  
 O. Akinboboye, K.J. Nichols, Y. Wang, U. Dim, O.O. Akinboboye (New Hyde Park, Roslyn, US)
- Reduction in attenuation artefact during myocardial perfusion scintigraphy with the use of breast tissue strapping. P 38  
 M.J. Haworth, A.R.J. Mitchell, M.A. Gardner, O.J.M. Ormerod, M.J. Haworth (Oxford, GB)
- Comparison of the results of intracoronary pressure measurement and stress scintigraphy. P 39  
 Z. Koszegi, C.S. Jenei, J. Varga, L. Galuska, I. Edes (Debrecen, HU)
- Equilibrium radionuclide angiography and echocardiography for assessing left ventricular ejection fraction in patients with severe left ventricular dysfunction selected to cardiac transplantation. P 40  
 C. Lourenco, A.I. Ferrer-Antunes, H. Vieira, R. Martins, F. Franco, L.A. Providencia, J.M. Pedrosa Lima (Coimbra, PT)
- Application of dipirydamole stress TC-99mMIBI spect in patients with significant aortic stenosis. P 41  
 M. Kostkiewicz, W. Szot, A. Mura, A.M. Lesniak-Sobelga, M. Olszowska, W. Tracz (Krakow, PL)
- Benefit of pulmonary thromboendarterectomy confirmed by tomographic radionuclide right ventriculography. P 42  
 I.P. Clements, B.P. Mullan, C.G. MacGregor, J.F. Breen (Rochester, US)
- Evaluation of diastolic function by gated SPECT: comparison with 2D echocardiography. P 43  
 R. Druz, K.J. Nichols, A. Gopal, A. Borges, K. Ngai, U. Dim (New Hyde Park, Roslyn, Stony Brook, US)
- Is there a relationship between myocardial perfusion scintigraphy and carotid ultrasound findings in predictive model for coronary artery bypass patients? P 44  
 I. Peovska, M. Bosevski, J. Maksimovic Pavlovic, M. Vavlukis (Skopje, MK)
- Tomographic radionuclide ventriculography vs TI-201 gated SPECT in the assessment of segmental myocardial contractility. P 45  
 E. Moralidis, T. Spyridonidis, G. Arsos, N. Karatzas, K. Karakatsanis (Patras, Thessaloniki, GR)
- Gated thallous chloride-201 myocardial perfusion SPECT imaging: Correlation of left ventricular functional determinants with simultaneously measured B-type natriuretic peptide levels. P 46  
 M. Wiley, J. Freeman, S. Kitchen, D. Graham, M. Schindel, E. Clark, D. Speiser, T. Hackney, M. Feldkamp, T. Rosamond (Kansas City, US)
- Clinical relevance of gated spect imaging in ischaemic dilated cardiomyopathy. P 47  
 E. Martins, M. Vasconcelos, T. Faria, A.N.P. Oliveira, M. Garcia, J. Pereira, F. Rocha Goncalves (Grijo, Porto, PT)
- Real time assessment of myocardial perfusion with intravenous contrast during adenosine stress echocardiography after percutaneous revascularisation. Comparison with 99mTc-sestamibi spect imaging. P 48  
 D. Skouse, L. Florimonte, L. Maffioli, L. Piatti, M. Calegari, R. Mancini, M. Bossi (Lecco, IT)
- A non-invasive evaluation of IHD with 16 slice MDCT coronary angiography & myocardial perfusion SPECT: an initial study. P 49  
 S RAY, Ray, Kundu, Bijon, Sarma. S K (Kolkata, IN)

- Cardiac sympathetic activity predicts functional improvement after biventricular pacing in patients with severe heart failure. P 50  
A. Somsen, H. Burri, S. Zaza, E. Fleury, A. Righetti (Geneva, CH)
- Exercise-induced myocardial ischaemia on 201-thallium Gated SPECT predicts a short term sudden cardiac death in chronic heart failure. P 51  
G.P. Carboni (Rome, IT)
- <sup>99m</sup>Tc-sestamibi scintigraphy in the prediction of cardiac events in patients with congestive heart failure. P 52  
T. Toriyama, H. Takase, T. Sugiura, T. Okado, S. Tanaka, Y. Dohi (Hamamatsu, Nagoya, JP)
- Effects of intravenous atrial natriuretic peptide on cardiac sympathetic nerve activity in patients with decompensated congestive heart failure. P 53  
S. Kasama, T. Honjoh, S. Ichikawa, T. Toyama, M. Kurabayashi (Gunma, Maebashi, JP)
- Myocardial perfusion images ( SPECT Tc<sup>99m</sup> Sestamibi) in heart failure patients and their association with ventricular arrhythmias profile. P 54  
A. Orea-Tejeda, E. Asensio Lafuente, L. Castillo, J. Dorantes, R. Narvaez, O. Gonzalez (Mexico City, MX)
- Usefulness of Fourier phase analysis of equilibrium radionuclide angiography for distinguishing ischaemic from nonischaemic cardiomyopathy. P 55  
E. Vallejo, G. Rodriguez, L. Jimenez, S. Hernandez, D. Bialostozky (Mexico City, MX)
- Myocardial I-123 BMIPP imaging and serum fatty acid binding protein levels in patients with congestive heart failure. Withdrawn  
Y. Takeishi, T. Arimoto, I. Kubota (Yamagata, JP)
- Short-term effect of nocturnal home oxygen therapy on myocardial sympathetic nervous activity evaluated by iodine-123-MIBG imaging in patients with refractory congestive heart failure. P 56  
Y. Yokoyama, A. Sato, T. Nozato, A. Takahashi, M. Isobe, K. Aonuma, M. Hiroe (Kanagawa, Tokyo, Tsukuba, Yokosuka, JP)
- Effects of sildenafil on ventricular volumes and ejection fractions in patients with congestive heart failure. P 57  
J. Lachman, O. Akinboboye, U. Dim, K.J. Nichols, K.A. Muratore, N. Aracely, E.S. Haag (New Hyde Park, Roslyn, US)
- Prognostic value of myocardial MIBG scintigraphy in heart disease patients with chronic renal failure should be identified from that in heart disease patients without chronic renal failure. P 58  
T. Furuhashi, M. Moroi, T. Kunimasa, H. Fukuda, K. Sugi (Tokyo, JP)
- Evaluation of intracoronary bone marrow transplantation, in patients with heart failure, by Thallium-201 scintigraphy. P 59  
M. Koutelou, N. Kollaros, A.A. Theodorakos, A. Kouzoumi, A. Manginas, E. Goussetis, V. Tsapaki, D.V. Cokkinos (Athens, GR)
- Improvement of sympathetic innervation, in patients with heart failure, undergoing bone marrow transplantation. P 60  
M. Koutelou, A.A. Theodorakos, N. Kollaros, A. Manginas, S. Graphakos, V. Tsapaki, A. Kouzoumi, D.V. Cokkinos (Athens, GR)
- Assessment of isolated left ventricular diastolic dysfunction by thallium-201 lung uptake during exercise myocardial SPECT. P 61  
E. Entok, A. Birdane, Y. Cavusoglu, I. Ak, O.B. Timuralp (Eskisehir, TR)
- Homogeneous washout pattern of 123I-MIBG myocardial images before beta-blocker therapy may predict the clinical outcome in patients with chronic heart failure. P 62  
Y. Watanabe, S. Akihiro, Y. Akio, W. Yasunori, T. Kimio, E. Nariaki, T. Yasuhiko, K. Ryo (Hitachi, JP)
- Effectiveness of carvedilol in treatment of hypertensive patients with chronic cardiac failure. P 63  
S.V. Gurgenyanyan, S. Vatinian, K.G. Nicogosyan, L.B. Edilyan, B.G. Chobanyan (Yerevan, AM)
- Short-term impact of medical treatment on LVEF and neuro-endocrine hormones in severe heart failure. P 64  
C.L. Petersen, J.M. Appel, A. Kjaer (Copenhagen, Frederiksberg, DK)
- The significance of the myocardial washout rate using 123 I-BMIPP in patients with chronic heart failure. P 65  
Y. Akashi, H. Musha, K. Kida, K. Suzuki, K. Inoue, K. Kawasaki, N. Hashimoto, F. Miyake (Kawasaki, Yokohama, JP)
- The significance of 123 I-BMIPP delayed scintigraphic imaging in cardiac patients. P 66  
Y. Akashi, H. Musha, K. Kida, K. Suzuki, K. Inoue, K. Kawasaki, M. Yamauchi, F. Miyake (Kawasaki, Yokohama, JP)
- Cardiac MIBG imaging as diagnostic study for dementia of Lewy bodies. P 67  
M. Estorch, E. Mena, V. Camacho, J. Fuertes, A. Rodriguez de la Serna, A. Flotats, M.A. Hernandez, J. Kulisevsky, I. Carrio (Barcelona, ES)
- Myocardial scintigraphy in patients with coronary artery diseases using 123I-vascular endothelial growth factor (VEGF). P 68  
S. Graf, M. Beheshti, O. Kienast, S. Oezer, P. Angelberger, R. Dudczak, S. Li (Seibersdorf, Vienna, AT)
- Stability of cardiac sympathetic denervation but progression of cardiomyopathy in familial amyloid polyneuropathy 2 years after liver transplantation. P 69  
N. Delahaye, S. Dinanian, M.S. Slama, L. Sarda, C. Tamas, F. Rouzet, D. Samuel, D. Adams, A. Syrota, D. Le Guludec (Orsay, Paris, FR)

11:00 - 12:30		ROOM 1
<b>State of the art in detection of CAD</b>		<b>Core curriculum</b>
<b>Chairpersons: F. Wackers (New Haven, US); J. Bax (Leiden, NL)</b>		
11:00	SPECT.	70
	S.R. Underwood (London, GB)	
11:20	Stress echo.	71
	D. Poldermans (Rotterdam, NL)	
11:40	PET and PET/CT.	72
	T.M. Bateman (Kansas City, US)	
12:00	CT and MRI.	73
	E E. Van Der Wall (Leiden, NL)	
12:20	Discussion.	74
11:00 - 12:30		ROOM 2
<b>Ongoing challenges in SPECT image optimisation</b>		<b>Advances in nuclear cardiology</b>
<b>Chairpersons: F. Beekman (Utrecht, NL); G. Germano (Los Angeles, US)</b>		
11:00	Attenuation, scatter and motion correction.	75
	B.M.W. Tsui (Baltimore, US)	
11:20	How to image the small heart.	76
	E. Ficaro (Ann-Arbor, US)	
11:40	Image quality: a clinician's perspective.	77
	J. Machac (New York, US)	
12:00	Challenges of simultaneous dual-isotope imaging.	78
	J. Cullom (Kansas City, US)	
12:20	Discussion.	79
11:00 - 12:30		ROOM 3
<b>Read with the Experts</b>		
11:00	Interpreting ECG-gated myocardial perfusion SPECT: systematic approach to common and challenging cases.	80
	A. Abreu (Lisbon, PT), E.G. DePuey (New York, US)	
11:00 - 12:30		ROOM 4
<b>Selecting the appropriate cardiac stress protocol</b>		<b>Essential cardiology for the nuclear physician</b>
<b>Chairpersons: L. Salgado (Lisbon, PT); F.J. Pinto (Lisbon, PT)</b>		
11:00	Exercise.	81
	P. Marzullo (Pisa, IT)	
11:20	Vasodilators.	82
	K A. Williams (Chicago, US)	
11:40	Dobutamine.	83
	R. Sciagra (Florence, IT)	
12:00	Combining exercise and pharmacologic stress.	84
	G.S. Thomas (Mission Viejo, US)	
12:20	Discussion.	85
11:00 - 12:30		ROOM 5
<b>PET and molecular imaging</b>		<b>Oral abstract session</b>
<b>Chairpersons: L.C. Becker (Baltimore, US); J.R. Ferreira (Amadora, PT)</b>		
11:00	Assessment of a mathematical model to measure myocardial lactate oxidation using L3-C-11 lactic acid and positron emission tomography.	86
	P. Herrero, Z. Kisrieva-Ware, C.S. Dence, A.R. Coggan, P. Eisenbeis, S.R.W. Scott, M.J. Welch, R. Gropler (St. Louis, US)	
11:15	The relationship between myocardial oxidative consumption and exercise tolerance in patients with chronic heart failure.	87
	R. Hosokawa, M. Ohba, N. Kambara, E. Tadamura, T. Kimura, R. Nohara, T. Kita (Kyoto, Osaka, JP)	

## Monday 9 May 2005 - Morning

**11:00 - 12:30**

**ROOM 5**

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|-------|---|----|
| 11:30 | Role of molecular imaging in mouse models of cardiac diseases - small animal PET to elucidate the pathophysiology in survivin-deficient mice.<br>B. Levkau, S. Hermann, H.A. Baba, L. Stegger, U. Floegel, J. Schrader, K. Schaefer, O. Schober, M. Schaefer (Dusseldorf, Essen, Munster, DE)                     | 88 |
| 11:45 | Doxorubicin cardiotoxicity in a rodent model of iron overload: assessment using Tc-99m-annexin.<br>G. Panjra, V. Patel, N. Narula, J. Narula, D. Jain (New York, Philadelphia, US)  | 89 |
| 12:00 | Matrix metalloproteinase-9 gene deletion enhances angiogenesis following myocardial infarction.<br>L.W. Dobrucki, M.L. Lindsey, J. Song, G.P. Escobar, H. Su, B.N. Bourke, M. Mendizabal, F.G. Spinale, A. Sinusas (Buckinghamshire, GB; Charleston, New Haven, US)   | 90 |
| 12:15 | Confirmation of selected bone marrow stem cells adherence to the previously infarcted non-viable myocardium, following intracoronary delivery, by radioactive labeling.<br>M. Koutelou, N. Kollaros, A.A. Theodorakos, A. Manginas, I. Peristeri, V. Tzapaki, A. Kouzoumi, D.V. Cokinos (Athens, Nea Penteli, GR) | 91 |

### Lunchtime Sessions

**12:45 - 13:45**

**ROOM 1**

- New directions in adenosine pharmacologic stress imaging** **Satellite Symposium**  
**Satellite Symposium organised by Astellas Pharma Ltd.**  
**Chairpersons: G. Thomas (Mission Viejo, US); D.J. Pennell (London, GB)**
- |       |   |    |
|-------|---|----|
| 12:45 | Should simultaneous exercise become the standard for adenosine myocardial perfusion imaging?<br>G.S. Thomas (Mission Viejo, US) | 92 |
| 13:00 | Cardiac positron emission tomography and the role of adenosine pharmacological stress.<br>T.M. Bateman (Kansas City, US)        | 93 |
| 13:15 | The future of pharmacologic stress: Selective A2a adenosine receptor agonists.<br>M. Cerqueira (Cleveland, US)                  | 94 |
| 13:30 | Questions and answers.  | 95 |

**12:45 - 13:45**

**ROOM 3**

- The next frontier: cardiac assessment in CHF and CAD** **Satellite Symposium**  
**Satellite Symposium organised by GE Healthcare**  
**Chairpersons: M. Schwaiger (Munich, DE); J Bax (Leiden, NL)**
- |       |   |    |
|-------|---|----|
| 12:45 | Risk assessment across the range of CAD.<br>M. Cerqueira (Cleveland, US)                      | 96 |
| 13:05 | Moving towards cardio-sympathetic-neuronal (CNS) imaging in CHF.<br>M. Schwaiger (Munich, DE) | 97 |
| 13:25 | Perfusion and innervation: combination imaging.<br>J Bax (Leiden, NL)                         | 98 |

**12:45 - 13:45**

**ROOM 5**

- Clinical and economic benefits of dedicated nuclear cardiac cameras** **User Group**  
**User Group organised by Philips Medical Systems**  
**Chairpersons: L. Liem (Milpitas, US); B. Leidekker (Best, NL)**
- |       |  |     |
|-------|--|-----|
| 12:45 | Dedicated cardiac camera: Its impact clinically and economically and its relevancy in Europe.<br>A.D. Kelion (Harefield, GB)           | 99  |
| 13:15 | System-wide benefits of nuclear cardiology and the prevalence of dedicated cardiac cameras in the USA.<br>J. Maddahi (Los Angeles, US) | 100 |

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

# Monday 9 May 2005 - Afternoon

SUNDAY

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## ROOM 1

**Debate: PET and PET/CT will supplant MPI SPECT and SPECT/CT as the future technique of choice in nuclear cardiology** Core curriculum

**Chairpersons: H.R. Schelbert (Los Angeles, US); A. Cuocolo (Naples, IT)**

14:00	Protagonist. M. Schwaiger (Munich, DE)	101
14:23	Antagonist. D. Berman (Los Angeles, US)	102
14:45	Rebuttal.	103
15:07	Rebuttal.	104

## ROOM 2

**Advances in instrumentation** Advances in nuclear cardiology

**Chairpersons: J.A. Case (Kansas City, US); S. Ziegler (Munich, DE)**

14:00	Advances in AC. K. Iida (Suita, JP)	105
14:20	Advances in SPECT - transmission CT systems. F. Beekman (Utrecht, NL)	106
14:40	PET - CT. T. Faber (Atlanta, US)	107
15:00	Image fusion. J H C. Reiber (Leiden, NL)	108
15:20	Discussion.	109

## ROOM 3

**Young Investigator Award session** YIA

**Chairpersons: F. Wackers (New Haven, US); M.C. Gerson (Cincinnati, US)**

	Judges for the Young Investigator Session.	110
	J.M. Knuuti (Turku, FI), A. Sinusas (New Haven, US), M.F. Di Carli (Boston, US), E.E. Van Der Wall (Leiden, NL), B. Zaret (New Haven, US), N. Tamaki (Sapporo, JP), D. Le Guludec (Paris, FR)	
14:00	Association between plasma myeloperoxidase levels and ischaemic response during stress nuclear perfusion imaging. H. Ghanbari, B. Hassunizadeh, F. Williams, D. Cunningham, S. Agrawal, C. Machado, S. Saba (Southfield, US)	111
14:15	Attenuation correction with CT and its impact on myocardial perfusion imaging in a hybrid SPECT/CT. M. Namdar, P.T. Siegrist, P. Koepfli, P. Tschuetscher, T.F. Hany, C.A. Wyss, P.A. Kaufmann (Zurich, CH)	112
14:30	Enhanced imaging of very small experimental atherosclerotic lesions in ApoE <sup>-/-</sup> mice: Use of bispecific antibody and Tc-99m-labeled polymeric probes. Y. Tekabe, A. Abu-Taha, L. Johnson, B. Khaw (Boston, New York, US)	113
14:45	Decreased myocardial beta-adrenergic receptor density according to severity of heart failure in patients with left ventricular dysfunction: PET study with C-11-labeled-CGP-12177. T. Tsukamoto, K. Morita, M. Naya, C. Katoh, Y. Kuge, H. Okamoto, H. Tsutsui, N. Tamaki (Sapporo, JP)	114
15:00	Myocardial perfusion imaging: A more powerful predictor than clinical or socioeconomic factors in Hispanic, African-American and Caucasian patients. G.L. Noble, R. ElKoustaif, S. Navare, J. Lundbye, D. Katten, M. Platt, A. Ahlberg, G V. Heller (Hartford, US)	115
15:15	Rosiglitazone improves myocardial glucose uptake in ischaemic regions in patients with type 2 Diabetes. A 16 week randomised, double-blind, placebo-controlled study. R. Lautamaki, J. Airaksinen, M. Seppanen, J. Toikka, M. Luotolahti, E. Ball, R. Harkonen, J.M. Knuuti, M. Stewart, P. Nuutila (London, GB; Turku, FI)	116

## ROOM 4

**Improving efficiency and quality in the nuclear cardiology laboratory** Essential cardiology for the nuclear physician

**Chairpersons: A.M.S.L. Ventosa (Carnaxide, PT); J.E. Udelson (Boston, US)**

14:00	Lab scheduling. S.R. Underwood (London, GB)	117
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# Monday 9 May 2005 - Afternoon

SUNDAY

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14:30	Imaging protocols. C. Marcassa (Veruno, IT)	119
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15:00	Physician credentialing: What are the requirements? M. Cerqueira (Cleveland, US)	121
15:15	Discussion.	122

MONDAY

14:00 - 15:30		ROOM 5
<b>Non invasive detection of ischaemia and intervention cardiology</b>		<b>Oral abstract session</b>
<b>Chairpersons: K. Brown (Burlington, US); L. Salgado (Lisbon, PT)</b>		
14:00	Attenuation corrected myocardial perfusion imaging optimizes detection of left anterior descending coronary artery stenoses in women. R. Druz, K.J. Nichols, U. Dim, K. Ngai, O. Akinboboye, N. Reichel (New Hyde Park, Roslyn, US)	123
14:15	Intravascular ultrasound and coronary pressure measurements in patients with scintigraphic myocardial ischaemia and non-significant coronary lesions. G. De Leon, J. Rodes Cabau, J. Candell-Riera, S. Aguade-Bruix, J. Castell-Conesa, J. Angel Ferrer, A. Soto, I. Anivarro Blanco, J.-C. Tardif, J. Soler-Soler (Barcelona, ES; Sainte-Foy, CA)	124
14:30	High-dose dobutamine stress myocardial fatty acid imaging can identify transient contractile dysfunction underestimated by stress perfusion imaging. A. Hashimoto, N. Kokubu, K. Nishizato, S. Yuda, K. Uno, T. Nakata, K. Tsuchihashi, K. Shimamoto, K. Nagao, T. Takada (Hakodate, Saporro, Tsukuba, JP)	125
14:45	Is a policy of liberal myocardial perfusion imaging testing appropriate after percutaneous coronary intervention with drug eluting stents? R. Thompson, J. Martin, T.M. Bateman, B.D. McAllister, B.R. Rutherford (Kansas City, US)	126
15:00	Prognostic value of myocardial perfusion-function imaging (gated-SPECT) in symptomatic and asymptomatic patients after percutaneous coronary intervention. M. Mazzanti, M. Marini, M. Serenelli, G.P. Perna (Ancona, IT)	127
15:15	Clinical efficacy of distal embolic protection device (PercuSurge GuardWire) in proximal right coronary artery during acute myocardial infarction estimated by gated myocardial perfusion SPECT. A. Sato, K. Aonuma, T. Nozato, Y. Yokoyama, A. Takahashi, M. Isobe, M. Hiroe (Kanagawa, Tokyo, Tsukuba, Yokosuka, JP)	128

TUESDAY

14:00 - 18:30		POSTER HALL
<b>Poster Session II Clinical General</b>		
Posters must be set up between 13:30 and 14:00, removed between 18:00 and 18:30 and be on display between 14:00 and 18:00.		
The author should be present throughout the coffee break (15:30-16:30) in order to discuss the poster. The first five abstracts below will be discussed in a dedicated area in the poster hall during the Poster Forum between 15:30 and 16:30 chaired by the two chairpersons mentioned below.		
<b>Chairpersons: A. Abreu (Lisbon, PT); E. Alexanderson (Mexico City, MX)</b>		
	Left ventricular function and phase analysis with equilibrium radionuclide angiography in patients with biventricular pacemaker. Preliminary results. A. Muxi, P. Paredes, J. Ortin, J. Duch, E. Diaz Infante, S. Fuertes, J. Orus, L. Mont, F. Pons (Barcelona, ES)	P 130
	Quantitative gated SPECT interassay reproducibility in atrial fibrillation. S. Aguade-Bruix, G. Romero-Farina, M. Mila-Lopez, J. Candell-Riera, A.P. Caresia, G. De Leon, P. Pifarre-Montaner, M. Negre-Buso, F. Porta-Biosca, J. Castell-Conesa (Barcelona, ES)	P 131
	Volume overload modulates improvement of myocardial perfusion induced by cardiac resynchronisation therapy. A. Gimelli, M. Stanislao, G. Valle, P. Zanco, E. Inglese, P. Bertelli, P. Marzullo (Novara, Pisa, San Giovanni Rotondo, Siena, Vicenza, IT)	P 132
	Detection of early diastolic dysfunction in patients with left ventricular hypertrophy using 16-frame gated myocardial perfusion SPECT. C. Akincioglu, D. Berman, H. Nishina, S.W. Hayes, P.B. Kavanagh, J.D. Friedman, P.J. Slomka, G. Germano (Istanbul, TR; Los Angeles, US)	P 133

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Impact of revascularisation strategy on long-term prognosis in patients with chronic ischaemic left ventricular dysfunction. P 137

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Is chronic ST segment elevation a marker of myocardial non viability in patients with Q wave anteroseptal MI? P 138  
Correlation with myocardial perfusion SPECT.

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Hibernating myocardium in ischaemic left ventricular dysfunction: relationship to the clinical presentation. P 141  
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Evolution of left ventricular systolic function after coronary revascularisation and medical treatment in patients with ischaemic cardiomyopathy. P 142

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- Impact of endothelial dysfunction on left ventricular remodelling after primary coronary angioplasty for acute myocardial infarction : analysis by quantitative ECG-gated SPECT. P 180  
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- Superiority of 16 frame ECG-Gated FDG PET to 8 frame study for the evaluation of left ventricular function: comparison with echocardiography. P 181  
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- Do serum post-stress B-type natriuretic peptide levels correspond to left ventricular remodelling in myocardial infarction determined by gated myocardial SPECT? P 182  
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- Comparative value of planar versus tomographic acquisitions for the calculation of left ventricular volume with ECG gated equilibrium radionuclide angiography. P 184  
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- Post-ischaemic myocardial stunning: a frequent phenomenon of prolonged duration during diagnostic stress tests with positive ECG changes. P 185  
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- Association of left ventricular mass and stress induced left ventricular cavity dilation in patients with normal myocardial perfusion scans. P 186  
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- LVEF by TI-201 Gated SPECT: limits of normalcy and reproducibility. P 187  
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- Distinct discrepancy between Thallium and BMIPP scans promises LVEDV and LVEF improvement. P 188  
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- Right ventricular function after acute myocardial infarction: dependence upon infarct-related coronary artery. P 189  
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- Right ventricular systolic function may commonly be impaired after bypass surgery. P 190  
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- Mismatch area within non-infarcted myocardium using 123I-BMIPP/TI-201 images might have improved left ventricular functional outcome after acute myocardial infarction. P 191  
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- Thallium quantitative gated SPECT at acute phase of anteroseptal myocardial infarction can predict possibility of future improvement of left ventricular size and ejection fraction. P 192  
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- Chronotropic index and heart rate recovery in patients with familial amyloidotic polyneuropathy. P 194  
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- M.C. Azevedo Coutinho, M.J. Correia, G. Cantinho, I. Conceicao, A. Bernardes, A. Silva, F. Gaspar, J.A. Correia da Cunha (Lisbon, PT)
- Delayed heart rate recovery after treadmill test: comparison with clinical, exercise and myocardial perfusion parameters. P 195  
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- Impact of left anterior fascicular blocks on the interpretation of stress electrocardiograms. P 196  
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- Cardiotoxicity after anthracycline chemotherapy in breast carcinoma: effects on left ventricular ejection fraction, troponin I and neurohormonal assessment. P 197  
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# Monday 9 May 2005 - Afternoon

14:00 - 18:30

POSTER HALL

- The utility of SPECT/CT for the detection of cardiac sarcoidosis on Gallium-67 scintigraphy. Withdrawn  
T. Kaneta, H. Otani, T. Hakamatsuka, H. Fukuda (Sendai, JP)
- Inflammation imaging as a prognostic indicator and its relationship with CRP and inflammatory scintigraphy P 198  
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Y. Mori, K. Takahashi, M. Masai, D. Kawasaki, T. Kanemori, S. Okuda, K. Tanabe, M. Ohyanagi (Nishinomiya, JP)
- Imaging of fatty acid metabolism can express tacrolimus (FK506) impairment on myocardium with model rat P 199  
and patients after renal transplantation.  
K. Takahashi, M. Masai, Y. Mori, T. Kanemori, K. Tanabe, S. Okuda, D. Kawasaki, M. Ohyanagi (Nishinomiya, JP)
- Prognostic value of cardiac scintigraphy in patients with left bundle branch block. P 200  
A. Abreu, L. Castillejos, I. Henriksson, L. Oliveira, L. Rosario, A. Geao, E. Pereira, P. Colarinha (Almada, PT)
- Cardiac denervation early after transmyocardial CO<sub>2</sub>-laser revascularisation in I-123-MIBG planar and SPECT P 201  
studies.  
A. Teresinska, M. Sliwinski, S. Konieczna, M. Szymanska, P. Hendzel, Z. Juraszynski, A. Debski, B. Szumilak (Warsaw, PL)
- Pefusion myocardial scintigraphy: experience in the massively obese patient. P 202  
P. Birkbeck, S. Thatikonda, M. Feldkamp, T. Rosamond (Kansas City, US)

16:30 - 18:00

ROOM 1

**Risk assessment**

Core curriculum

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- 16:45 Post AMI. 204  
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- 17:00 Post-revascularisation (CABG and PTCA). 205  
T. Miller (Rochester, US)
- 17:15 Before non-cardiac surgery. 206  
D. Poldermans (Rotterdam, NL)
- 17:30 Diabetes. 207  
F. Wackers (New Haven, US)
- 17:45 Discussion. 208

16:30 - 18:00

ROOM 2

**Nuclear imaging in cardiovascular drug research**

Advances in nuclear cardiology

**Supported with the aid of an unrestricted educational grant from CV Therapeutics**

**Chairpersons: R. Gropler (St. Louis, US); M. Schwaiger (Munich, DE)**

- 16:30 The present problems and future needs of CV drug development. 209  
J. Shryock (Palo Alto, US)
- 16:50 How to use molecular imaging to design therapeutic agents? 210  
F.M. Bengel (Munich, DE)
- 17:10 Imaging as a surrogate marker: Role of PET. 211  
R. Gropler (St. Louis, US)
- 17:30 Imaging as a surrogate marker: Role of SPECT. 212  
J.E. Udelson (Boston, US)
- 17:50 Discussion. 213

16:30 - 18:00

ROOM 3

**Read with the Experts**

- 16:30 Experts' approach to unknown challenging cases. 214  
J. Maddahi (Los Angeles, US), J.V. Vitola (Curitiba, BR)

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

16:30 - 18:00

ROOM 4

**Tracers for nuclear cardiology**

**Essential cardiology for the nuclear physician**

**Chairpersons: N.A. Vita (Rosario, AR); R. Beanlands (Ottawa, CA)**

16:30	Perfusion agents. B L F. Van Eck-Smit (Amsterdam, NL)	215
16:50	FDG. D. Jain (Philadelphia, US)	216
17:10	Free fatty acid analogs. T. Nakata (Sapporo, JP)	217
17:30	MIBG. I. Matsunari (Hakui, JP)	218
17:50	Discussion.	219

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ROOM 5

**Risks in special populations**

**Oral abstract session**

**Chairpersons: G. Cantinho (Lisbon, PT); P.L. Pieri (Cesena, IT)**

16:30	Prognostic value of myocardial ischemia in patients with uncomplicated acute myocardial infarction: direct comparison of stress echocardiography and myocardial perfusion imaging. W. Acampa, L. Spinelli, M. Petretta, F. De Lauro, F. Ibello, A. Cuocolo (Naples, IT)	220
16:45	Comparison of lipid and scintigraphic responses accompanying statin therapy: SPECT pravastatin CAD regression study. M. Kudes (Rochester, US)	221
17:00	Does ECG-Gated Tc-99m sestamibi myocardial perfusion imaging underestimate multi-vessel ischemia in patients with diabetes? S. Navare, G.L. Noble, D. Katten, A. Ahlberg, M. Platt, G.V. Heller (Hartford, US)	222
17:15	Prognostic utility of normal technetium99m tetrofosmin myocardial perfusion SPECT in Asian women compared to men. R. Wong, H.C. Wong, F. Azizi, R. Wong, K.T. Ho (Redon, FR; Singapore, SG)	223
17:30	Impact of cardiac resynchronisation therapy on ventricular delays assessed by multiharmonic analysis of radionuclide angiography. F. Rouzet, P. Lim, L. Sarda-Mantel, S. Bleichner-Perez, D. Lasalmonie, M. Slama, A. Cohen-Solal, D. Le Guludec (Clamart, Clichy, Paris, FR)	224
17:45	Correlation of electron beam computed tomography with stress single photon emission computed tomography. G. Ramakrishna, T. Miller, J.F. Breen, P.A. Araoz, D.O. Hodge, R. Gibbons (Rochester, US)	225

**Evening Sessions**

18:15 - 19:45

ROOM 5

**Sympathetic nerve function imaging for assessment of heart failure**

**User Group**

**User Group organised by Daiichi Radioisotope Labs.,Ltd.**

**Chairpersons: N. Tamaki (Sapporo, JP); I. Carrio (Barcelona, ES)**

18:15	Outline of MIBG application in Japan. J. Yamazaki (Tokyo, JP)	226
18:30	Prognostic evaluation in heart failure patients using MIBG imaging. P. Merlet (Créteil, FR)	227
18:45	Application of cardiac I-123 MIBG imaging to beta- blocker therapy for patients with dilated cardiomyopathy. Y. Ishida (Osaka, JP)	228
19:00	New developments and heart transplantation. I. Carrio (Barcelona, ES)	229

## Tuesday 10 May 2005 - Morning

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

08:30 - 10:00		ROOM 1
<b>Quantitative evaluation of perfusion</b>		<b>Core curriculum</b>
<b>Chairpersons: G. Sambuceti (Pisa, IT); PJ. Slomka (Los Angeles, US)</b>		
08:30	Why do we need perfusion quantification? F. Wackers (New Haven, US)	230
08:45	Defining abnormality thresholds with normal databases. E. Ficaro (Ann-Arbor, US)	231
09:00	Semiquantitative vs quantitative perfusion. J. Arrighi (Providence, US)	232
09:15	Effect of attenuation correction on perfusion quantification. T. Faber (Atlanta, US)	233
09:30	Absolute quantification of myocardial perfusion. K. Iida (Suita, JP)	234
09:45	Discussion.	235
08:30 - 10:00		ROOM 2
<b>How to perform and apply attenuation correction in clinical SPECT imaging</b>		<b>Core curriculum</b>
<b>Chairpersons: B. Kemp (Rochester, US); T.M. Bateman (Kansas City, US)</b>		
08:30	How to perform attenuation correction. A. Mann (Hartford, US)	236
08:50	Comparison of attenuation correction systems. B. Kemp (Rochester, US)	237
09:10	Quality assurance: what to look for? J.A. Case (Kansas City, US)	238
09:30	Clinical results. R. Hendel (Chicago, US)	239
09:50	Discussion.	240
08:30 - 10:00		ROOM 3
<b>Read with the Experts</b>		
08:30	Evaluating patients with acute coronary syndromes and stable CAD: how to use imaging findings in management decisions. D. Berman (Los Angeles, US), J. vom Dahl (Moenchengladbach, DE)	241
08:30 - 10:00		ROOM 4
<b>Fundamentals of PET imaging</b>		<b>Essential cardiology for the nuclear physician</b>
<b>Chairpersons: P.A. Kaufmann (Zurich, CH); M.F. Di Carli (Boston, US)</b>		
08:30	The basics: the guts of a PET scanner. S. Ziegler (Munich, DE)	242
08:45	How to optimize AC (nonCT and CT -based). P.A. Kaufmann (Zurich, CH)	243
09:00	2D vs 3D imaging, and image processing. J. Cullom (Kansas City, US)	244
09:15	Myocardial perfusion protocols. P.G. Camici (London, GB)	245
09:30	Metabolic imaging with FDG: how to do it successfully. R. Beanlands (Ottawa, CA)	246
09:45	Discussion.	247
08:30 - 10:00		ROOM 5
<b>Technical aspects of radionuclide imaging</b>		<b>Oral abstract session</b>
<b>Chairpersons: B.L. F. Van Eck-Smit (Amsterdam, NL); J. Pereira (Porto, PT)</b>		
08:30	A novel bayesian reconstruction method to correct CT image artifacts in cardiac PET/CT. B.-L. Hsu, K.W. Moser, J. Cullom, T.M. Bateman, G.V. Heller, J.A. Case (Hartford, Kansas City, US)	248
08:45	Ventricular dyssynchrony assessed by equilibrium radionuclide angiography in patients candidates to cardiac resynchronization therapy. F. Rouzet, S. Ederhy, S. Bleichner-Perez, S. Dinanian, A. Cohen-Solal, P. Merlet, D. Le Guludec (Clamart, Clichy, Paris, FR)	249

**08:30 - 10:00** **ROOM 5**

09:00	"Side lobe" artifact is due to attenuation and not ramp filtering. C.L. Hansen (Philadelphia, US)	250
09:15	Four-dimensional quantitative SPECT reconstruction Methods for improved gated myocardial perfusion SPECT. B.M.W. Tsui, T.-S. Lee, W.P. Segars (Baltimore, US)	251
09:30	Influence of collimator choice and different clinical conditions on 123I-MIBG heart/mediastinum ratios: a phantom study. H.J. Verberne, C. Feenstra, A. De Jong, A. Somsen, B.L.F. Van Eck-Smit, E. Busemann Sokole (Amsterdam, NL)	252
09:45	Ejection fraction and volumes determined by gated SPECT can be a standard for the left ventricular function in a multi-center trial: Reproducibility study in 106 hospitals. K. Nakajima, T. Nishimura, S. Kumita, K. Fukuchi, H. Kobayashi, J. Taki, H. Maruno, S. Hasegawa, Y. Takeishi, S. Nakagawa (Kanazawa, Kyoto, Osaka, JP)	253

**08:30 - 12:30** **POSTER HALL**

**Poster Session III - Clinical Outcome and PET**

Posters must be set up between 08:00 and 08:30, removed between 12:30 and 13:00 and be on display between 08:30 and 12:30. The author should be present throughout the coffee break (10:00 - 11:00) in order to discuss the poster. The first five abstracts below will be discussed in a dedicated area in the poster hall during the Poster Forum chaired by the two chairpersons mentioned below.

**Chairpersons: M. Bottcher (Egaa, DK); R. Russell (New Haven, US)**

Angiotensin-converting enzyme gene polymorphism adds risk for the severity of coronary atherosclerosis. V. Kozulin, O. Berkovich, T. Ivashchenko, V. Larionova, I. Esipovich, M. Gordeev, A. Panov, E. Shlyakhto (St. Petersburg, RU)	P 255
Cold pressure testing 99 Tc MIBI-SPECT useful detecting abnormal coronary vasoreactivity in asymptomatic population with moderate risk of cardiovascular events. PARADIGMA multicenter study. N.A. Perez Balino, O. Masoli, S. Traverso, L. Grynberg, C. Rappallo, M. Redruello, D. Rosa, D. Cragnolino, A. Meretta, L. Vidal (Buenos Aires, AR)	P 256
Prognostic value of heart rate response in patients with atrial fibrillation undergoing gated SPECT Tc-99m sestamibi exercise stress testing. E. Podrasky, M. Henzlova (New York, US)	P 257
A selective angiotensin receptor antagonist, temisaltan, produced regression of left ventricular hypertrophy with the improvement of myocardial perfusion and fatty acid metabolism. Y. Watanabe, S. Akihiro, Y. Akio, K. Ryou, T. Kimio, W. Yasunori, T. Yasuhiko, E. Nariaki (Hitachi, JP)	P 258
Clinical predictors and prognostic value of stress induced abnormal TI-201 myocardial perfusion SPECT in asymptomatic patients with diabetes mellitus. S. Livshitz, T. Zornitzki, S. Vered, M. Oettinger, R. Levy, A. Caspi, D. Faraggi, H. Knobler (Haifa, Rehovot, IL)	P 259

**Clinical Outcome and PET** **260**

Correlation between clinical-angiographic and scintigraphic markers in prediction of perfusion and kinetic improvement after mechanical revascularization in acute myocardial infarction. E. Varani, M. Balducelli, S. Severi, A. Patroncini, G. Vecchi, C. Gatti, C. Corbelli, R. Casanova, A. Maresta (Faenza, Ravenna, IT)	P 261
Assessment of acute myocardial infarction evolution in patients undergoing primary angioplasty or thrombolytic therapy: a gated-SPECT longitudinal evaluation study. C. Cittanti, M. Valgimigli, M. Giganti, P. Malagutti, G. Percoco, E. Bagatin, S. Panareo, N. Avigni, R. Ferrari, L. Feggi (Ferrara, IT)	P 262
Assessment of left ventricle perfusion with Tc-99m-MIBI SPECT and RNV in patients with AMI treated with bone marrow stem cells. M. Popiel, S. Grajek, R. Czepczynski, P. Breborowicz, M. Lesiak, A. Czyz, K. Sawinski, M. Komarnicki, A. Cieslinski, J. Sowinski (Poznan, PL)	P 263
Prognostic factors of myocardial perfusion imaging in medically treated patients with acute myocardial infarction having nonviable myocardium. H. Bom, H.C. Song, J.J. Min, Y.J. Heo (Gwangju, Jeonnam, Kwangju, KR)	P 264
Mink gene polymorphism and risk paroxysmal atrial fibrillation in the patients with sick sinus syndrome. N. Burova, O. Berkovich, V. Larionova, D. Baranov, V. Timoshin, E. Shlyakhto (St.Petersburg, RU)	P 265
The use of phenotypic characteristics in mutation analysis of families with long QT syndrome. S. Chuprova, M. Shkolnikova, E. Zaklyazminskaya, A. Poliakov (Moscow, RU)	P 266

## Tuesday 10 May 2005 - Morning

08:30 - 12:30

POSTER HALL

- Impact of type 2 diabetes on myocardial perfusion and glucose uptake in areas supplied by stenotic and non-stenotic coronary arteries. P 267  
H. Sondergaard, M. Bottcher, M.M. Madsen, O. Schmitz, T.T. Nielsen, H.E. Botker (Aarhus, DK)
- Gated SPECT abnormalities and risk factors in patients with symptomatic intracranial atherosclerotic stenosis. P 268  
G. Romero-Farina, J.F. Arenillas, J. Candell-Riera, S. Aguade-Bruix, G. De Leon, C.A. Molina, P. Chacon, J. Montaner, A. Rovira, J. Alvarez-Sabin (Barcelona, ES)
- Post stress endsystolic volume and kidney function are independent determinants of NTproBNP levels in elderly patients with coronary artery disease. P 269  
O. De Winter, N. Van de Veire, M. de Buyzere, T.C. Gillebert, D. Bernard, M. Langlois, R. Dierckx, J.H.A.J. De Sutter (Brugge, Ghent, BE)
- A prospective, multi-center trial to identify the prevalence of inducible ischaemia in patients presenting with diabetes and without known coronary artery disease: preliminary results. P 270  
W. Acampa, A. Ferro, M. Petretta, M. Salvatore, A. Cuocolo, W. Acampa (Naples, IT)
- Usefulness of thallium-201 myocardial perfusion SPECT images in type 2 Diabetic patients without typical chest pain. P 271  
H. Fukuda, T. Kunimasa, T. Furuhashi, M. Moroi (Tokyo, JP)
- Detection of myocardial ischaemia with myocardial perfusion SPECT in patients with diabetes mellitus. P 272  
J.H. Seo, J. Lee, J.H. Bae, S.Y. Jeong, B.C. Ahn, S.C. Chae, K.B. Lee (Daegu, Taegu, KR)
- The use of logistic regression analysis based on clinical epidemiological data and treadmill test results to select patients to undergo myocardial perfusion scintigraphy. P 273  
P.S. Duarte, L.E. Mastrocolla, C.R.E. Sampaio, J.M. Rossi, P.E. Smanio, E.V. Lima, C.A.R. Oliveira, J.C.R. Pereira, L.E. Mastrocolla (Sao Paulo, BR)
- Integration of function and morphology in cardiac PET/CT: a feasibility study in patients with chronic and ischaemic heart disease. P 274  
S. Nekolla, M. Souvatzoglou, J. Hausleiter, N. Henke, K. Kruschke, F.M. Bengel, M. Schwaiger (Munich, DE)
- Flow-mediated brachial artery vasodilation rules out coronary artery disease in patients with peripheral artery disease. P 275  
P. Perrone-Filardi, A. Cuocolo, G. Storto, G. Brevetti, S. Dellegrottaglie, L. Corrado, M. Cafiero, M. Polimeno, A. Zarrilli, M. Chiariello (Naples, IT)
- Correlation between N-Terminal pro-brain natriuretic peptide and myocardial perfusion defects in patients with stable coronary artery disease and normal ejection fraction. P 276  
G. Vanzetto, P. Jacon, D. Fagret, J. Machecourt (Grenoble, FR)
- Left ventricular dysfunction after vasodilator stress is more accurate than perfusion for diagnosis of coronary artery disease. P 277  
R. Druz, K.J. Nichols, O. Akinboboye, N. Reichel (New Hyde Park, Roslyn, US)
- Clinical classification of stable angina pectoris patients is not reliable - not even in high risk patients. P 278  
P.F. Hoiland-Carlsen, A.H.D. Johansen, H.W. Christensen, W. Vach, M. Moeldrup, T. Haghfelt (Odense, DK)
- Characteristics of stress induced ischaemia in symptomatic versus asymptomatic population without known coronary artery disease: Correlation with age, gender and functional capacity. P 279  
I. Mats, A.G. Solodky, T. Ben-Gal, A. Battler, N. Zafrir (Petah Tikva, IL)
- Normal myocardial perfusion SPECT in patients with relevant coronary stenoses in whom does it occur? P 280  
M.J. Zellweger, P. Burger, J. Mueller-Brand, M.E. Pfisterer (Basel, CH)
- ST depression during pharmacological stress testing in patients with left ventricular hypertrophy predicts extensive coronary artery disease. P 281  
B. Darrow, M. Henzlova (New York, US)
- Prognosis of patients with positive exercise test and normal myocardial perfusion SPECT. P 282  
J.H. Seo, J. Lee, J.H. Bae, S.Y. Jeong, B.C. Ahn, S.C. Chae, K.B. Lee (Daegu, Taegu, KR)
- Myocardial perfusion imaging in patients with chest pain and nonsignificant angiographic lesions - correlation to biochemical markers of myocardial injury. P 283  
M. Vasconcelos, E. Martins, T. Faria, A. Oliveira, M. Garcia, J. Pereira, F. Rocha-Goncalves (Grijo, Porto, PT)
- Diagnosis of CAD at patients with systemic hypertension using myocardial perfusion imaging SPECT - 99m Tc tetrofosmin. P 284  
C. Medrea, R.S. Bogdan, A. Lazar, S. Mot, R. Capilneanu (Cluj-Napoca, RO)
- The utility of myocardial perfusion imaging and Duke treadmill score in predicting outcome in Hispanic versus Caucasian women. P 285  
J. Lundbye, S. Werden, F. Kazi, A. Whalen, G.L. Noble, D. Katten, D. O'Sullivan, A. Ahlberg, W.E. Boden, G.V. Heller (Hartford, US)
- Resting LVEF and transient ischaemic dilatation index are predictors of all-cause mortality in patients aged 75 years or older. P 286  
O. De Winter, A. Velghe, N. Van de Veire, P. De Bondt, M. de Buyzere, C. Van de Wiele, G.G. De Backer, T.C. Gillebert, R. Dierckx, J.H.A.J. De Sutter (Ghent, BE)

- Prognostic value of myocardial stunning as detected by gated SPECT during a cardiac perfusion stress test. P 287  
M. Beretta, S. Vinas, A. Gonzalez, I. Vidal, A. Rener, F. Mut (Montevideo, UY)
- Long-term evolution of myocardial perfusion pattern at 99mTc-MIBI SPECT in stable CAD patients maintained on medical therapy. P 288  
C. Marcassa, R. Campini, P. Calza, P. Giannuzzi (Veruno, IT)
- Prognostic value of 99Tc-tetrofosmin SPECT exercise myocardial scintigraphy after incomplete revascularisation with coronary stenting. P 289  
A.R. Galassi, C. Grasso, S.A. Azzarelli, E. Leotta, S. Moshiri, C. Tamburino (Catania, IT)
- Significance of ST elevation on stress myocardial perfusion scans (MPI) in women. P 290  
L. Leventhal, A. Epps, S. Chiaramida (Charleston, US)
- Concomitant anti-ischæmic medication does not affect the prognostic value of a normal stress myocardial perfusion test. P 291  
A. Silva Ferreira, A.M.S.L. Ventosa, V.M.M. Gil, J. Calqueiro, S. Lima, C.M. Aguiar, R. Couto, L.F. De Oliveira Raposo, R.J. Seabra-Gomes (Carnaxide, PT)
- Prognostic value of rubidium-82 perfusion positron emission tomography in patients referred after SPECT imaging. P 292  
K. Yoshinaga, B.J. Chow, R.A. de Kemp, K. Williams, L. Garrard, A. Szeto, M. Aung, R. Davies, T. Ruddy, R. Beanlands (Ottawa, CA)
- Incremental prognostic power of adenosine SPECT myocardial perfusion imaging in high risk patients for coronary artery disease: a comparison with cardiac catheterisation data. P 293  
R.T. Robert Tuttle, L.K. Shaw, M.W.H. Michael Hanson, S. Borges-Neto (Durham, US)
- Evaluation of perfusion defect and ventricular function in patients with Q wave and non Q wave myocardial infarction. P 294  
C. Lourenco, C. Roque, A.I. Ferrer-Antunes, M. Ferreira, L.A. Providencia, J.M. Pedroso Lima (Coimbra, PT)
- Incremental prognostic value of exercise capacity in risk stratification of patients with left bundle branch block using ECG-gated Tc-99m sestamibi stress myocardial perfusion imaging. P 295  
S. Navare, A. Ahlberg, G. Cyr, D. Katten, A. Ausef, G.V. Heller (Hartford, US)
- Cardiac events after five years of a normal perfusion myocardial scintigraphy. P 296  
P. Smanio, P. Beraldo, F. Rodrigues, A. Thom (Sao Paulo, BR)
- Role of myocardial perfusion imaging in evaluation of patients with non transmural myocardial infarction. P 297  
P.S. Sundaram, S. Padma, K.K. Haridas, S. Kumar, M. Zachariah (Cochin, IN)
- Stress Tc-99m sestamibi ECG-Gated SPECT is effective for risk stratification of patients with left ventricular systolic dysfunction and suspected CAD. P 298  
A. Ausef, A. Ahlberg, D. O'Sullivan, P.G. Danias, G.I. Papaioannou, I.A. Leka, W.E. Boden, G.V. Heller (Halandri Attikis, GR; Hartford, US)
- Relation of stress myocardial perfusion defects and left ventricular function parameters as assessed by gated single photon emission tomography using 99mTc-sestamibi. P 299  
K. Elsaban, T. El-Kady, M. El-Gabaly, A. Yehia, A.E.A.M. El-Sayed (Assyout, Cairo, EG)
- Impact of ACC/AHA guidelines for risk stratification and management of patients undergoing vascular surgery (vs): a prospective study. P 300  
P.L. Pieri, R. Berta, G. Moscatelli, F. Buccoliero (Bologna, Cesena, IT)
- Incidence of post-exercise stunning evaluated by Gated-SPET myocardial perfusion imaging a multicenter study. P 301  
E. Inglese, C. Marcassa, G. Medolago, D. Imperiale, M.L. De Rimini, F. Bertagna, P. Sullo, M. Lupo, A. Ferro, M. Cappagli (Bergamo, Brescia, Caserta, Florence, La Spezia, Naples, Novara, Palermo, Veruno, IT)
- Risk assessment with MPI prior to non-cardiac surgery: A real world experience. P 302  
G.S. Thomas, T.K. Ip, R. Thompson, D.B. Kramer, D.L. Rice, J.J. Thomas, M.I. Miyamoto (Boston, Kansas City, Mission Viejo, New Haven, San Diego, US)
- The effects of mid-term cardiac resynchronisation therapy on myocardial perfusion at rest and after vasodilation and on myocardial oxygen consumption in heart failure patients. P 303  
O. Lindner, J. Vogt, A. Kammeier, E. Fricke, P. Wielepp, D. Baller, B. Lamp, J. Holzinger, D. Horstkotte, W. Burchert (Bad Oeynhausen, DE)
- Effects of spinal cord stimulation on myocardial perfusion and function measured by N-13 ammonia-PET. P 304  
S. Graf, A. Khorsand, M. Beheshti, C. Poetzi, W. Wadsak, K. Kletter, G. Porenta, H. Sochor, G. Maurer, J. Wolfram (Vienna, AT)
- Evaluation of stem cell therapy in patients with acute myocardium infarction using radionuclide methods. P 305  
S.I. Sazonova, V.I. Chernov (Tomsk, RU)
- Relationship between symptoms and perfusion status before and after revascularisation in patient with stable angina pectoris. P 306  
A.H.D. Johansen, P.F. Hoiland-Carlsen, H.W. Christensen, W. Vach, M. Moeldrup, T. Haghfelt (Odense, DK)
- Metabolic support with glutamine or glutamate was not cardioprotective in a porcine model assessed by MPI. P 307  
J.H. Kristensen, M. Maeng, U.M. Mortensen, J.S. Berg, M. Rehling, T.T. Nielsen (Aarhus, DK)

## Tuesday 10 May 2005 - Morning

08:30 - 12:30

POSTER HALL

- Effects of percutaneous intramyocardial plasmid gene transfer of vascular endothelial growth factor (phVEGF-A165) on myocardial perfusion measured by N-13 ammonia-PET. P 308  
S. Graf, A. Khorsand, M. Gyoengyoesi, G. Karanikas, H. Eidherr, K. Kletter, G. Porenta, D. Glogar, H. Sochor (Brunn am Gebirge, Vienna, AT)
- Caffeine decreases coronary flow reserve in CAD patients. P 309  
M. Namdar, P.T. Siegrist, R. Grathwohl, R. Delaloye, P. Koepfli, C.A. Wyss, P.A. Kaufmann (Zurich, CH)
- Parametric imaging for myocardial blood flow and perfusable tissue fraction with O-15] water and PET. P 310  
H. Watabe, N. Teramoto, Y. Ohta, Y. Kou, T. Hayashi, H. Iida (Suita, JP)
- Motion detection and correction for dynamic cardiac PET water studies. P 311  
A. Naum, M.S. Laaksonen, H. Tuunanen, V. Oikonen, J. Kempainen, M.J. Jarvisalo, P. Nuutila, J.M. Knuuti (Turku, FI)
- Impact of myocardial perfusion scanning with 13N-ammonia PET and revascularisation on long-term prognosis in patients with coronary artery disease. P 312  
N. Bartenstein, J. Hellermann, P.T. Siegrist, M. Namdar, P. Koepfli, C. Pollack, U. Schurr, P.A. Kaufmann (Zurich, CH)
- Myocardial efficiency reserve predicts the deterioration in exercise capacity over time in patients with heart failure. P 313  
K. Yoshinaga, H. Ukkonen, I. Burwash, R.A. de Kemp, W. Dafoe, R. Davies, H. Haddad, T. Ruddy, J. DaSilva, R. Beanlands (Ottawa, CA)
- Marked dispersion of cardiac FDG uptake for medical examination under fasting state by the whole body from consecutive 564 cases in Japanese. P 314  
Y. Watanabe, S. Akihiro, Y. Akio, K. Ryou, W. Yasunori, T. Kimio, T. Yasuhiko, E. Nariaki (Hitachi, JP)

11:00 - 12:30

ROOM 1

### Evaluation of viability

Core curriculum

**Chairpersons: A. Lahiri (Edgware, GB); J. Maddahi (Los Angeles, US)**

- 11:00 Clinical relevance, pathophysiology. 315  
R. Bonow (Chicago, US)
- 11:15 Role of SPECT. 316  
J. Maddahi (Los Angeles, US)
- 11:30 Role of PET. 317  
M.F. Di Carli (Boston, US)
- 11:45 Role of echocardiography. 318  
P. Perrone-Filardi (Naples, IT)
- 12:00 Role of MRI. 319  
J.J. Bax (Leiden, NL)
- 12:15 Discussion. 320

11:00 - 12:30

ROOM 2

### Assessing coronary microvascular dysfunction post MI

Advances in nuclear cardiology

**Chairpersons: P.G. Camici (London, GB); G. Sambuceti (Pisa, IT)**

- 11:00 Pathophysiology and clinical perspective. 321  
U. Sechtem (Stuttgart, DE)
- 11:15 Novel approaches with coronary angiography. 322  
J. vom Dahl (Moenchengladbach, DE)
- 11:30 Role of nuclear cardiology. 323  
G. Sambuceti (Pisa, IT)
- 11:45 Role of Echo. 324  
P. Nihoyannopoulos (London, GB)
- 12:00 Role of MRI. 325  
D.J. Pennell (London, GB)
- 12:15 Discussion. 326

11:00 - 12:30

ROOM 3

### Read with the Experts

- 11:00 Performing and interpreting viability imaging: how to use perfusion, metabolism and infarct imaging. 327  
A. Cuocolo (Naples, IT), D. Delbeke (Nashville, US)

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

**11:00 - 12:30 ROOM 4**

**Assessing cardiac function** **Essential cardiology for the nuclear physician**

**Chairpersons: E. Busemann Sokole (Amsterdam, NL); M. Cerqueira (Cleveland, US)**

11:00	First pass and equilibrium RVG (planar and SPECT). P. Franken (Brussels, BE)	328
11:15	Gated SPECT and PET. G. Germano (Los Angeles, US)	329
11:30	Echocardiography (3D). F.J. Pinto (Lisbon, PT)	330
11:45	MRI. J.H.C. Reiber (Leiden, NL)	331
12:00	How to evaluate RV function. D. Le Guludec (Paris, FR)	332
12:15	Discussion.	333

**11:00 - 12:30 ROOM 5**

**Radionuclide imaging in chronic heart failure** **Oral abstract session**

**Chairpersons: A. Antunes (Coimbra, PT); E.H. Botvinick (San Francisco, US)**

11:00	Impaired myocardial blood flow and flow reserve associated with increased coronary resistance in persistent idiopathic atrial fibrillation. M. Schaeffers, F. Range, T. Acil, K. Schaeffers, B. Brisse, G. Breithardt, O. Schober, T. Wichter (Munster, DE)	334
11:15	Characterisation of cardiac phenotype in genetically defined hypertrophic cardiomyopathy. H. Tuunanen, J. Kuusisto, J. Toikka, P. Jaaskelainen, M. Haaparanta, K.J. Peuhkurinen, O. Eskola, P. Nuutila, M. Laakso, J.M. Knuuti (Kuopio, Tampere, Turku, FI)	335
11:30	Effects of candesartan on cardiac sympathetic nerve activity in patients with congestive heart failure and preserved left ventricular ejection fraction. S. Kasama, T. Honjoh, S. Ichikawa, T. Toyama, M. Kurabayashi (Gunma, Maebashi, JP)	336
11:45	Selection of heart failure patients for cardiac resynchronisation therapy: Could there be a role for equilibrium radionuclide angiography with Fourier phase analysis? A. Cheetham, M.B. Al-Housni, J. Smith, M. Mason, N.R. Banner, A.D. Kelion (Harefield, Middlesex, GB)	337
12:00	Biventricular pacing improves left ventricular synchrony irrespective of AV-delay in patients with congestive heart failure. P.T. Siegrist, N. Comte, P. Koepfli, M. Namdar, M. Klainguti, C. Brunchkhorst, C. Scharf, P.A. Kaufmann (Zurich, CH)	338
12:15	Long-term prognosis in patients with chronic ischaemic left ventricular dysfunction after viability testing with PET and revascularization. C. Pollack, J. Hellermann, M. Namdar, P. Koepfli, P.T. Siegrist, N. Bartenstein, U. Schurr, R. Jenni, P.A. Kaufmann (Zurich, CH)	339

**Lunchtime Sessions**

**12:45 - 13:45 ROOM 2**

**Perspectives in nuclear cardiology: global expertise and expectations** **Satellite Symposium**  
**Satellite Symposium organised by Bristol-Myers Squibb Medical Imaging**

**Chairpersons: A. Cuocolo (Naples, IT); E.G. DePuey (New York, US)**

12:45	Is tracer selection important? E.G. DePuey (New York, US)	340
13:05	Secrets of perfusion imaging in women. S.R. Underwood (London, GB)	341
13:20	The Diabetic iceberg - assessing silent CAD in type 2 diabetes. S. Giri (Springfield, US)	342
13:40	Summary and conclusions. A. Cuocolo (Naples, IT)	343

**14:00 - 15:30** **ROOM 1**

**Chest pain evaluation in the emergency department** **Core curriculum**

**Chairpersons: J. vom Dahl (Moenchengladbach, DE); J. Ziffer (Miami, US)**

14:00	Clinical data, biomarkers and ECG. B. Abbott (New Haven, US)	344
14:15	Acute perfusion imaging. A. Flotats (Barcelona, ES)	345
14:30	SPECT FDG and BMIPP. N. Tamaki (Sapporo, JP)	346
14:45	Role of echocardiography. P. Nihoyannopoulos (London, GB)	347
15:00	Direct coronary angiography. J. vom Dahl (Moenchengladbach, DE)	348
15:15	Discussion.	349

**14:00 - 15:30** **ROOM 2**

**Cardiovascular molecular imaging techniques to assess biology and therapeutic interventions** **Advances in nuclear cardiology**

**Chairpersons: A. Sinusas (New Haven, US); I. Carrio (Barcelona, ES)**

14:00	Imaging angiogenesis: conventional and novel approaches. A. Sinusas (New Haven, US)	350
14:15	Imaging apoptosis. L. Hofstra (Maastricht, NL)	351
14:30	Imaging gene expression. F.M. Bengel (Munich, DE)	352
14:45	Imaging cell transplantation. J. Bartunek (Aalst, BE)	353
15:00	Imaging atherosclerosis. L. Johnson (New York, US)	354
15:15	Discussion.	355

**14:00 - 15:30** **ROOM 3**

**Read with the Experts**

14:00	Optimising evaluation of cardiac function: gated SPECT, planar and SPECT RVG and first pass RNA. E.H. Botvinick (San Francisco, US), K.A. Williams (Chicago, US)	356
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**14:00 - 15:30** **ROOM 4**

**Quantification of SPECT** **Essential cardiology for the nuclear physician**

**Chairpersons: E. Ficaro (Ann-Arbor, US); K. Allman (Concord, AU)**

14:00	Current approaches. A. Cuocolo (Naples, IT)	357
14:15	Pitfalls of quantification of perfusion. J. Arrighi (Providence, US)	358
14:30	Pitfalls of quantification of function. E. Vallejo (Mexico City, MX)	359
14:45	Clinical application of quantification (cases). G.S. Thomas (Mission Viejo, US)	360
15:00	Clinical importance of quantification for prognosis. K. Allman (Concord, AU)	361
15:15	Discussion.	362

**14:00 - 15:30** **ROOM 5**

**Organising governmental policy to drive effective PET/SPECT utilisation** **Advances in nuclear cardiology**

**Chairpersons: L.J. Shaw (Atlanta, US); L. Salgado (Lisbon, PT)**

14:00	Developing cost effective profiles to guide health care policy. L.J. Shaw (Atlanta, US)	363
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14:00 - 15:30

ROOM 5

14:20	UK perspective. S.R. Underwood (London, GB)	364
14:40	US perspective. M. Cerqueira (Cleveland, US)	365
15:00	EU perspective. G. Cantinho (Lisbon, PT)	366
15:20	Discussion.	367

14:00 - 18:00

POSTER HALL

**Poster Session IV - Experimental and Instrumentation**

Posters must be set up between 13:30 and 14:00, removed between 18:00 and 18:30 and be on display between 14:00 and 18:00.

The author should be present throughout the coffee break (15:30-16:30) in order to discuss the poster. The first five abstracts below will be discussed in a dedicated area in the poster hall during the Poster Forum between 15:30 and 16:30 chaired by the two chairpersons mentioned below.

**Chairpersons: E. Busemann Sokole (Amsterdam, NL); P.J. Slomka (Los Angeles, US)**

Biodistribution and myocardial uptake after ischaemia-reperfusion of <sup>99m</sup> Tc-AnxD1, a new marker of cell apoptosis: a preliminary study.	P 369
L. Sarda-Mantel, J.-B. Michel, F. Rouzet, G. Martet, A. Meulemans, J.M. Vrigneaud, D. Le Guludec (Paris, FR)	
A population pharmacokinetic/pharmacodynamic analysis of regadenoson, an A2A adenosine receptor agonist, suggests unit-based dosing in humans.	P 370
T. Gordi, H. Lieu, A. Olmsted, L. Belardinelli (Palo Alto, US)	
Integrating cardiac PET/CT list mode acquisition in a clinical routine environment: implementation and initial experiences.	P 371
S. Nekolla, M.J. Martinez, W. Howe, F. Kehren, S. Ziegler (Knoxville, US; Munich, DE)	
<sup>90</sup> Sr/ <sup>90</sup> Y beta-radiation intracoronary brachytherapy efficacy in patients with aggressive coronary in-stent restenosis.	P 372
M.L. De Rimini, M. Catalano, G. Bonzani, A. Scalzone, R. Merenda, I. Monteforte, V. Monda, P. Muto (Naples, IT)	
A population pharmacokinetic/pharmacodynamic analysis of regadenoson, an A2A adenosine receptor agonist, in healthy subjects.	P 373
T. Gordi, A. Olmsted, H. Lieu, L. Belardinelli (Palo Alto, US)	

**Experimental and Instrumentation.**

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Left ventricular remodeling after coronary artery ligation demonstrated by serial pinhole gated SPECT in rats.	P 375
P. Franken, T. Lahoutte, F. Maskali, C. Vanhove, J. Nloga, N. Tran, P.Y. Marie (Brussels, BE; Vandoeuvre, FR)	
Monitoring left-ventricular dilation in mice by high-resolution small-animal-PET: validation study using MRI.	P 376
L. Stegger, K. Schaefer, U. Floegel, J. Schrader, O. Schober, B. Levkau, M. Schaefer (Dusseldorf, Essen, Munster, DE)	
Tc- <sup>99m</sup> -annexin V uptake depends on ischaemic severity and reperfusion time.	P 377
J. Taki, T. Higuchi, A. Kawashima, K. Nakajima, A. Muramori, I. Matsunari, J.F. Tait, J.L. Vanderheyden, H.W. Strauss, N. Tonami (Hakui, Kanazawa, JP; Boston, New York, Seattle, US)	
Assessment of Tc- <sup>99m</sup> MIBI washout in animals with induced heart failure.	P 378
K. Cho, S. Kumita, K. Seino, H. Nakajo, M. Toba, T. Kumazaki (Bunkyo-Ku, Chiba, Tokyo, JP)	
Cell proliferation and differentiation of <sup>111</sup> In-labelled CD34- human endothelial progenitor cells.	P 379
L. Bindslev, K.B. Kirsten Bisgaard, M.H.S. Mandana Haack-Soerensen, S.M. Steen Mortensen, L.K. Linda Kragh, A. Kjaer, J.K. Jens Kastrop, B. Hesse, B.H. Birger Hesse (Copenhagen, Herlev, DK)	
Assessment of <sup>99m</sup> TcN-NOET and thallium-201 myocardial uptake in experimental models of chronic non-reperfused and reperfused myocardial infarction.	P 380
B. Riou, A. Broisat, G. Ghezzi, C. Lartzien, C. Berthonneche, M.C. Toufektsian, S. Maitrejean, M. Janier, G. Vanzetto, D. Fagret (Grenoble, La Tronche, Lyon, Paris, FR)	
Peripheral arterial endothelial response to exercise in the evaluation of patients with coronary artery disease.	P 381
I.V. Vassiliadis, G. Souretis, C. Komporozos, A. Fountos, A. Papademetriou, A. Spanos, A. Antoniou, P. Strembelas (Athens, Kifissia, GR)	
Ischaemia in women with angina and normal coronary angiograms.	P 382
A. Peix, D. Garcia-Barreto, F. Ponce, L.O. Cabrera, J. Valiente, F. Tornes, I. Guerrero, F. Heres, E.J. Garcia, B. Cabale (Havana, CU)	
A study of changes in deformation and metabolism in the left ventricle as a function of hypertrophy in spontaneous hypertensive rats using microPET technology.	P 383
G.T. Gullberg, R.H. Huesman, B.W. Reutter, A. Sitek, A.I. Veress, J.A. Weiss, J. Qi, Y. Yang (Berkeley, Davis, Salt Lake City, US)	

- A stochastic approach for quantification of hotspot focal uptake from cardiac SPECT/CT images: a canine validation. P 384  
 Y.-H. Liu, S. Li, B N. Bourke, C. Weyman, A. Sinusas (New Haven, US)
- Noninvasive assessment of coronary flow reserve by cardiac SPECT in patients with peripheral artery disease: correlation with flow mediated dilation index. P 385  
 T. Pellegrino, G. Storto, A.R. Sorrentino, A. Silvestri, P. Perrone-Filardi, G. Brevetti, A. Cuocolo (Naples, IT)
- Effect of age and menopausal status on indices of coronary vasomotion in women without coronary risk factor. P 386  
 J.O. Prior, A.D. Facta, T.H. Schindler, M.A. Oxilia-Estigarribia, M. Hernandez Pampaloni, R. Campisi, X. Zhang, A. Bischof Delaloye, L. Nathan, H.R. Schelbert (Lausanne, CH; Los Angeles, US)
- Strategy of quantitative assessment of myocardial perfusion and coronary flow reserve using intravenous TI-201 and micro-SPECT in rat. P 387  
 H. Iida, T. Zeniya, K.M. Kim, H. Watabe, N. Teramoto, Y. Yamamichi (Suita, Tokyo, JP)
- Ammonia-PET perfusion scan in the assessment of the endothelial function in patients with primary antiphospholipid syndrome. P 388  
 E. Alexanderson, A. Ricalde, A. Vargas, A. Meave, M.C. Amigo (Mexico City, MX)
- Display of myocardial motion by projecting specific components of the 3D motion of myocardial elements on the plane of origin. P 389  
 M. Goris, H.J. ZHU (Stanford, US)
- Myocardial blood flow and coronary vascular resistance are dependent on thyroid function - a quantitative study using positron emission tomography and oxygen-15-labeled water. P 390  
 P. Kies, L. Stegger, T. Wichter, K. Schaefers, O. Schober, M. Schaefers (Munster, DE)
- Assessment of base-to-apex gradients of myocardial blood flow after statin therapy at different stages of coronary atherosclerosis. P 391  
 P. Wielepp, D. Baller, E. Pulawski, R. Weise, E. Fricke, D. Horstkotte, W. Burchert (Bad Oeynhausen, DE)
- Effect of spinal cord stimulation on myocardial blood flow in patients with therapy refractory angina pectoris. P 392  
 P. Wielepp, S. Eckert, A. Dongas, D. Horstkotte, W. Burchert (Bad Oeynhausen, DE)
- Myocardial perfusion SPECT in hypertensive patients with microvascular angina; predictors of false positive perfusion defect and the role of coronary flow reserve. P 393  
 F. Aboul-Enein, A. Battah, A.H. Abdel Fattah, A. Abdel Atty, A.H. Allam (Alexandria, Cairo, EG)
- Diagnostic value of transthoracic ultrasound for assessment of distal graft anastomosis patency. Withdrawn  
 O. Kardash, N. Maroz-Vodolazskaya (Minsk, BY)
- Prediction of the left ventricular ejection fraction using cavity-to-myocardium count ratio and perfusion scores in myocardial perfusion SPECT. P 394  
 S. Zakavi, V R. Dabagh Kakhki, H. Jabari (Mashad, IR)
- Reduced cardiac sympathetic innervation contributes to elevated proinflammatory cytokines levels in patients with congestive heart failure. P 395  
 V. Prassopoulos, F. Parthenakis, A. Patrianakos, S. Koukouraki, A. Velidaki, N. Karkavitsas, P. Vardas (Athens, Heraklion, Marousi, GR)
- Attenuation and scatter correction in myocardial perfusion scintigraphy: differences between exercise and pharmacologic stress. P 396  
 A. Velidaki, K. Perisinakis, S. Koukouraki, J. Koutsikos, V. Prassopoulos, P. Vardas, N. Karkavitsas (Athens, Heraklion-Crete, Marousi, GR)
- Institutional based assessment of myocardial viability by nitrate augmented Tc99m Sestamibi gated SPECT and low dose Dobutamine stress echo: a comparative study. P 397  
 S. Sundaraiya, S. Sumati, KA. Sambhasivam, S. David (Coimbatore, Delhi, IN)
- Single photon emission computed tomography (SPECT) perfusion imaging for detection of subendocardial extent of myocardial infarction compared with contrast-enhanced magnetic resonance. P 398  
 O. Masoli, M. Redruello, F. Ograsta, C. Collaud, P. Koslowski, N.A. Perez Balino, M. Eleta, P. Arce, L. Vidal (Buenos Aires, AR)
- Causes of discrepancy between ejection fraction estimated by echocardiography and the obtained by gated-SPECT. P 399  
 P. Awamleh Garcia, P. Talavera Calle, V. Torres, M.A. Balsa, O. Gonzalez, M.T. Alberca Vela, R. Miguel, D. Cosio (Getafe, Madrid, ES)
- Comparison of gated spect imaging and 2-D echocardiography in ischaemic dilated cardiomyopathy. P 400  
 M. Vasconcelos, E. Martins, T. Faria, A. Oliveira, N. Pardal, F. Macedo, J. Pereira, F. Rocha-Goncalves (Grijo, Porto, PT)
- Evaluation of leg muscle perfusion by 99mTc sestamibi scintigraphy in patients with unilateral chronic venous insufficiency and acute deep venous thrombosis. P 401  
 G. Pekindil, A. Sarikaya, T. Ege, S. Salihoglu (Edirne, Manisa, TR)
- Measurement of right and left ventricular ejection fraction and volume with tomographic radionuclide ventriculography: validation using electron-beam computed tomography. P 402  
 I.P. Clements, B.P. Mullan, M.K. O'connor, J.F. Breen, C.G.A. McGregor (Rochester, US)

- MIBI uptake in myocardial volume (MIV) may help to distinguish the degree of segmental dysfunction but not the viability. P 403  
 J. Misko, M. Dziuk, A. Warczynska, E. Skrobowska (Warsaw, PL)
- Differential effects of filtering and attenuation correction on assessments of left ventricular volumes and ejection fraction from ECG-gated SPECT: evaluation of four different software. Withdrawn  
 V. Tsatkin, F. Wackers, Y.-H. Liu (New Haven, US)
- Does motion correction of myocardial perfusion SPECT studies influence the clinical outcome of the study? P 404  
 D. Tout, C. Loong, V. Naidoo, A. Van Aswegen, S.R. Underwood (London, GB)
- Gated SPECT - methods variability for ejection fraction determination. P 405  
 G. Cantinho, H. Pena, L. Freire, A. Veiga, P. Goncalves, F. Godinho (Lisbon, PT)
- Differential effects of filtering and attenuation correction on assessments of left ventricular volumes and ejection fraction from ECG-gated SPECT: evaluation of four different software. P 406  
 V. Tsatkin, F. Wackers, Y.-H. Liu (New Haven, US)
- Arrhythmogenic right ventricular cardiomyopathy in patients with right ventricular outflow tract premature contractions. P 407  
 F. Rouzet, D. Daou, R. Lebtahi, R. Frank, A. Leenhardt, M. Slama, D. Le Guludec (Clamart, Paris, FR)
- Validation of an automatic SPECT radionuclide angiography processing software program for the measurement of right ventricular function against echocardiography. P 408  
 D. Daou, C. Coaguila, A. Benada, M. Razzouk, I. Idy-Peretti, D. Le Guludec (Paris, FR)
- Equilibrium radionuclide angiography: 24 vs 32 frames per cardiac cycle. P 409  
 E. Moralidis, G. Arsos, D. Boundas, S. Georga, N. Karatzas, K. Karakatsanis (Thessaloniki, GR)
- Correlation between radionuclide phase analysis and echocardiography in the assessment of cardiac dyssynchrony. P 410  
 E. Eleuteri, C. Marcassa, R. Campini, F. Scapellato, P.L. Temporelli, P. Giannuzzi (Veruno, IT)
- Relative impact of left ventricular (LV) dyssynchronism (D), right ventricular (RV) D, and interventricular D for the determination of LV function. P 411  
 D. Daou, C. Coaguila, A. Benada, A. Leenhardt (Paris, FR)
- Correlation between cardiac dyssynchrony by radionuclide phase analysis and systolic and diastolic function. Implication for cardiac resynchronisation therapy. P 412  
 C. Marcassa, R. Campini, P. Calza, P. Giannuzzi (Veruno, IT)
- Right ventricular function and functional capacity in patients with primary pulmonary hypertension: correlation and outcome. P 413  
 B. Zingerman, D. Bendayan, A. Sagie, A.G. Solodky, I. Mats, Y. Shapira, M.R. Kremer, N. Zafir (Petah Tikva, IL)
- Incremental diagnostic value of 99m-Tc-DTPA non-gated first-pass radionuclide angiography over 201-Thallium gated-SPECT in the assessment of global left ventricular function. P 414  
 G.P. Carboni, M. Miglionico, M. Tavolozza (Rome, IT)
- Radionuclide angiography SPECT (RNA SPECT): performance of two different methods for the calculation of volumes. P 415  
 D. Daou, C. Coaguila, A. Benada, D. Le Guludec (Paris, FR)
- Repeatability of two different ECG gated blood pool SPECT processing software for the quantification of left ventricular function. P 416  
 D. Daou, C. Coaguila, A. Benada, M. Razzouk, I. Idy-Peretti, D. Le Guludec (Paris, FR)
- New departure in Fourier analysis using gated cardiac POOL-SPECT for indication of cardiac resynchronisation therapy. P 417  
 T. Muramatsu, T. Yamazaki, K. Seki, J. Kawanami, T. Nakajima, Y. Yamada, T. Suga, K. Matsumoto, S. Nishimura (Moroyama-machi, JP)
- Reversibility of systolic and diastolic function abnormalities by low dose dobutamine radionuclide ventriculography. P 418  
 E. Entok, Y. Causoglu, I. Ak, E. Vardareli, O.B. Timuralp (Eskisehir, TR)
- Impact of patient movement on gated myocardial perfusion SPECT (GSPECT) and radionuclide angiography SPECT (RNA SPECT) for the quantification of left ventricular (LV) function. P 419  
 D. Daou, C. Coaguila, D. Vilain, A. Benada, R. Lebtahi, D. Le Guludec (Paris, Suresnes, FR)
- Relationship of transient ischaemic dilation in dipyridamole myocardial perfusion imaging and ischaemic stunning: evaluated by thallium-201 gated SPECT. P 420  
 G.U. Hung, K.W. Lee, C.P. Chen, K.T. Yang (Changhua, TW)
- Quantitative low dose dobutamine gated perfusion SPECT. P 421  
 T. Chua, C. Lee, Y.-J F. Keng, Z.P. Ding, T.H. Koh (Singapore, SG)
- A new automated method for quantification of gated myocardial perfusion SPECT based on a 3-dimensional heart shaped model. P 422  
 M. Lomsky, J. Richter, J. Richter, L. Johansson, L. Johansson, H. El-Ali, H. El-Ali, K. Astrom-Olsson, K. Astrom-Olsson, M. Ljungberg, M. Ljungberg, L. Edenbrandt, L. Edenbrandt (Gothenburg, Lund, SE)
- The effect of attenuation on ejection fraction and volumes values in women calculated from gated SPECT data. P 423  
 P. Thorley (Leeds, GB)
- Predictors of differences in left ventricular ejection fraction and volumes determined by quantitative gated rest and post-stress Tc-99m sestamibi SPECT. P 424  
 G. Ramakrishna, T. Miller, M.K. O'connor, R. Gibbons (Rochester, US)

14:00 - 18:00

POSTER HALL

- Efficacy of myocardial gated SPECT in follow-up study for coronary artery disease. P 425  
 I. Adachi, H. Shimomura, H. Shimomura, T. Kintaka, T. Kintaka, T. Komori, T. Komori, Y. Ogura, Y. Ogura, Y. Kitaura, Y. Kitaura, I. Narabayashi, I. Narabayashi (Takatsuiki, JP)
- Improving the image quality of pinhole gated SPECT by modeling the finite dimensions of the pinhole opening during reconstruction. P 426  
 C. Vanhove, T. Lahoutte, M. Defrise, A. Andreyev, A. Bossuyt, P. Franken (Brussels, Jette, BE)

16:30 - 18:00

ROOM 1

**Debate: Myocardial viability assessment is required prior to revascularisation in patients with ischaemic heart failure** Core curriculum

**Chairpersons: R. Bonow (Chicago, US); R. Hachamovitch (Santa Monica, US)**

- 16:30 Protagonist. 427  
 G.A. Beller (Charlottesville, US)
- 16:53 Antagonist. 428  
 U. Sechtem (Stuttgart, DE)
- 17:15 Rebuttal. 429
- 17:37 Rebuttal. 430

16:30 - 18:00

ROOM 2

**Imaging approaches for evaluation of cardiovascular complications in metabolic syndrome and diabetes**

**Supported with the aid of an unrestricted educational grant from Bracco Diagnostics Inc.**

**Chairpersons: T. Miller (Rochester, US); M. Bottcher (Aarhus, DK)**

- 16:30 Characterisation of endothelial function and microvascular reactivity. 431  
 M.F. Di Carli (Boston, US)
- 16:45 Myocardial substrate metabolism in the obese and diabetic heart. 432  
 J.M. Knuuti (Turku, FI)
- 17:00 Early detection of CAD and risk stratification. 433  
 G.V. Heller (Hartford, US)
- 17:15 Characterisation of diastolic and systolic function. 434  
 E. Picano (Pisa, IT)
- 17:30 Characterisation of cardiac autonomic dysfunction. 435  
 K. Allman (Concord, AU)
- 17:45 Discussion. 436

16:30 - 18:00

ROOM 3

**Read with the Experts**

- 16:30 Experts' approach to unknown challenging cases. 437  
 D. Jain (Philadelphia, US), J.H. Mieres (Manhasset, US)

16:30 - 18:00

ROOM 4

**How to evaluate patients after heart transplantation** Essential cardiology for the nuclear physician

**Chairpersons: G. Cantinho (Lisbon, PT); N. Zafrir (Petah Tikva, IL)**

- 16:30 The clinical need for non invasive assessment. 438  
 M. Walsh (Indianapolis, US)
- 16:45 Cardiac rejection: role of antibodies and Annexin-V imaging? 439  
 J. Narula (Orange, US)
- 17:00 Role of perfusion imaging for detecting transplant vasculopathy. 440  
 N. Zafrir (Petah Tikva, IL)
- 17:15 Do absolute measurements of perfusion and perfusion reserve have a role? 441  
 O.A. Parodi (Milan, IT)
- 17:30 Innervation and denervation after transplantation. 442  
 I. Matsunari (Hakui, JP)
- 17:45 Discussion. 443

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

16:30 - 18:00

ROOM 5

**Novel applications of myocardial perfusion imaging**

Oral abstract session

**Chairpersons: R. Hendel (Fox River Grove, US); M. Ferreira (Coimbra, PT)**

- |       |   |     |
|-------|---|-----|
| 16:30 | Effects of CVT-3146, a novel coronary vasodilator under development for use in myocardial imaging, on A2A-adenosine receptors of human platelets and neutrophils.<br>K. Varani, J.C. Shryock, L. Belardinelli, P.A. Borea (Ferrara, IT; Palo Alto, US)  | 444 |
| 16:45 | Feasibility of low-high dose dobutamine gated SPECT to evaluate inotropic reserve and stress induced left ventricular dysfunction in patients with coronary artery disease.<br>M. Spadafora, F. Manganelli, A. Ferro, P. Varrella, V. Rizzo, L. Mansi, G. Rosato, P. Miletto, A. Cuocolo (Avellino, Naples, IT) | 445 |
| 17:00 | Insulin improves myocardial blood flow in patients with type 2 Diabetes and coronary artery disease.<br>R. Lautamaki, J. Airaksinen, M. Seppanen, J. Toikka, M. Luotolahti, R. Borra, J. Sundell, J.M. Knuuti, P. Nuutila (Turku, Vantaa, FI)   | 446 |
| 17:15 | Myocardial blood flow reserve is determined by not only coronary stenosis severity but also coronary risk factors in patients with suspected coronary artery disease.<br>T. Tsukamoto, K. Morita, M. Naya, C. Katoh, Y. Kuge, H. Okamoto, H. Tsutsui, N. Tamaki (Sapporo, JP)                                   | 447 |
| 17:30 | Impact of smoking cessation on coronary vasomotor response assessed with O-15 labeled water and PET in healthy young smokers.<br>K. Morita, T. Tsukamoto, M. Naya, K. Noriyasu, M. Mabichi, H. Kageyama, N. Tamaki (Sapporo, JP)  | 448 |
| 17:45 | HDL stimulates myocardial perfusion in vivo.<br>S. Hermann, B. Levkau, G. Theilmeier, M. Van der Giet, J. Chun, O. Schober, M. Schaefers (Berlin, Essen, Munster, DE; La Jolla, US)   | 449 |

**Evening Sessions**

18:15 - 19:45

ROOM 3

**Proven outcomes in nuclear medicine**

Satellite Symposium

**Satellite Symposium organised by Siemens Medical Solutions**

**Chairpersons: M. Schaefers (Munster, DE); M.F. Joao (Coimbra, PT)**

- |       |  |     |
|-------|--|-----|
| 18:15 | Nuclear cardiology: the present and the future.<br>K. Churchwell (Nashville, US) | 450 |
| 18:45 | Future applications of PET/CT in cardiology.<br>M. Schaefers (Munster, DE)       | 451 |

18:15 - 19:45

ROOM 5

**Nuclear cardiology as a gatekeeper to decide the therapy**

User Group

**User Group organised by Nihon Medi-Physics Co., Ltd**

**Chairpersons: T. Nishimura (Kyoto, JP); A. Jacobsen (Middlesex, GB)**

- |       |   |     |
|-------|---|-----|
| 18:15 | Accurate identification of high risk patients with abnormal tissue level perfusion using emergency myocardial SPECT in acute coronary syndrome.<br>T. Kajiji (Hyogo, JP)          | 452 |
| 18:30 | Usefulness of low dose technetium-99m-tetrofosmin in patients with suspected coronary artery disease in the view of cost-effectiveness.<br>H. Takase (Shizuoka, JP)               | 453 |
| 18:45 | Prognostic value of normal stress myocardial scintigraphy in patients with coronary artery disease and usefulness of multislice computed tomography.<br>H. Matsuda (Kumamoto, JP) | 454 |
| 19:00 | Basic findings of BMIPP.<br>R. Hosokawa (Kyoto, JP)   | 455 |
| 19:15 | BMIPP studies in the U.S.-current and future status.<br>J.E. Udelson (Boston, US)   | 456 |
| 19:30 | Scintigraphic assessment of cardiac regeneration therapy.<br>H. Yaoita (Fukushima, JP)  | 457 |

08:30 - 10:00	ROOM 1
<b>CAD detection in women</b>	
<b>Chairpersons: L.J. Shaw (Atlanta, US); L. Johnson (New York, US)</b>	
08:30 Overview of clinical problem. D. Berman (Los Angeles, US)	458
08:45 Who needs testing? M. Kiess (Vancouver, CA)	459
09:00 Role of nuclear imaging. J.H. Mieres (Manhasset, US)	460
09:15 Role of stress echo. E. Picano (Pisa, IT)	461
09:30 What do the data show? L.J. Shaw (Atlanta, US)	462
09:45 Discussion.	463

**Core curriculum**



08:30 - 10:00	ROOM 2
<b>Late Breaking Trials</b>	
<b>Chairpersons: F. Wackers (New Haven, US); P.L. Pieri (Cesena, IT)</b>	
08:30 Coronary calcium, silent myocardial ischaemia and inflammatory biomarkers in asymptomatic type 2 Diabetic subjects without prior cardiovascular disease. A. Lahiri (Harrow, GB)	464
08:50 Preliminary results of an international observational study of pharmacologic stress SPECT myocardial perfusion imaging: the OUTCOMES study. J.E. Udelson (Boston, US)	465
09:10 Risk stratification post myocardial infarction: implications from the INSPIRE trial. J.J. Mahmarian (Houston, US)	466
09:30 The relationship between administered radiopharmaceutical activity in myocardial perfusion scintigraphy and parameters of imaging and clinical outcome. C. Robinson (London, GB)	467
09:50 Discussion	468

**Special Session**

08:30 - 10:00	ROOM 3
<b>Read with the Experts</b>	
08:30 Optimising evaluation of perfusion and metabolism with PET and PET/CT. F.M. Bengel (Munich, DE), J. Machac (New York, US)	470

08:30 - 10:00	ROOM 4
<b>Special considerations in non-ischaemic heart failure</b>	
<b>Chairpersons: G.A. Beller (Charlottesville, US); R. Sciagra (Florence, IT)</b>	
08:30 Differentiation from ischaemic cardiomyopathy. B. Abbott (West Haven, US)	471
08:45 Imaging inflammatory myopathies. D. Le Guludec (Paris, FR)	472
09:00 Imaging myocardial metabolism. I. Matsunari (Hakui, JP)	473
09:15 Imaging innervation and receptors. I. Carrio (Barcelona, ES)	474
09:30 Monitoring of new therapies. J.M. Knuuti (Turku, FI)	475
09:45 Discussion.	476

**Essential cardiology for the nuclear physician**

08:30 - 10:00	ROOM 5
<b>Small animal imaging</b>	
<b>Chairpersons: K. Iida (Suita, JP); A. Sinusas (New Haven, US)</b>	
08:30 Promises and challenges of molecular imaging. H R. Schelbert (Los Angeles, US)	477
08:50 Pinhole imaging and microSPECT. P. Franken (Brussels, BE)	478

**Advances in nuclear cardiology**

# Wednesday 11 May 2005 - Morning

08:30 - 10:00		ROOM 5
09:10	Micro PET. S. Ziegler (Munich, DE)	479
09:30	MicroSPECT and combined microSPECT/microCT imaging systems. F. Beekman (Utrecht, NL)	480
09:50	Discussion.	481
11:00 - 12:30		ROOM 1
<b>Debate: Imaging plays an important role in the screening of asymptomatic patients at risk for CAD</b>		<b>Core curriculum</b>
<b>Chairpersons: U. Sechtem (Stuttgart, DE); T. Miller (Rochester, US)</b>		
11:00	Protagonist. L.C. Becker (Baltimore, US)	482
11:23	Antagonist. M.J. Schalij (Leiden, NL)	483
11:45	Rebuttal.	484
12:07	Rebuttal.	485
11:00 - 12:30		ROOM 2
<b>Cost effectiveness of nuclear cardiology in patients with known or suspected CAD: What do the data show?</b>		<b>Advances in nuclear cardiology</b>
<b>Chairpersons: E.E. Van Der Wall (Leiden, NL); E. Vallejo (Mexico City, MX)</b>		
11:00	Chronic CAD. H. Sochor (Vienna, AT)	486
11:15	Post MI. J.J. Mahmarian (Houston, US)	487
11:30	Post CABG/PCI. T.M. Bateman (Kansas City, US)	488
11:45	Acute chest pain. L.J. Shaw (Atlanta, US)	489
12:00	Heart failure. A. Lahiri (Edgware, GB)	490
12:15	Discussion.	491
11:00 - 12:30		ROOM 3
<b>Read with the Experts</b>		
11:00	Interpreting and quantifying attenuation corrected SPECT imaging. L. Johnson (New York, US), J. Ziffer (Miami, US)	492
11:00 - 12:30		ROOM 4
<b>How to evaluate patients with ischaemic heart failure</b>		<b>Essential cardiology for the nuclear physician</b>
<b>Chairpersons: P. Perrone-Filardi (Naples, IT); J.M. Pedroso Lima (Coimbra, PT)</b>		
11:00	Role of SPECT. C.L. Hansen (Philadelphia, US)	493
11:15	Role of PET. P.G. Camici (London, GB)	494
11:30	Role of echocardiography. J.J. Bax (Leiden, NL)	495
11:45	Role of MRI. D.J. Pennell (London, GB)	496
12:00	How to use this information in management decisions. R. Bonow (Chicago, US)	497
12:15	Discussion.	498

SUNDAY

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WEDNESDAY

**11:00 - 12:30** **ROOM 5**

**-Novel diagnostic strategies for the management of non-ischaeamic heart failure** **Advances in nuclear cardiology**

**Chairpersons: J. Narula (Orange, US); R. Hendel (Fox River Grove, US)**

11:00	Molecular imaging in heart failure: angiogenesis, apoptosis and cell transplantation. J. Narula (Orange, US)	499
11:15	Assessing risk of sudden death: role of nuclear techniques. J.E. Udelson (Boston, US)	500
11:30	Role of imaging in resynchronisation therapy. J.H.A.J. De Sutter (Ghent, BE)	501
11:45	Assessment of substrate metabolism. R. Russell (New Haven, US)	502
12:00	Prediction response to medical therapy. M. Walsh (Indianapolis, US)	503
12:15	Discussion.	504

## Lunchtime Sessions

**12:35 - 13:50** **ROOM 1**

**Women's seminar** **Advances in nuclear cardiology**

**Chairpersons: L.J. Shaw (Atlanta, US); H. Verwey (Leiden, NL)**

12:35	Worldwide perspective on CAD in women. S. Priori (Pavia, IT)	505
12:50	Are there differences in the accuracy of imaging tests in women. V. Naidoo (London, GB)	506
13:05	Evolving role of imaging in diabetic women. A. Cuocolo (Naples, IT)	507
13:20	Congestive heart failure in women. M. Walsh (Indianapolis, US)	508
13:35	Roundtable discussion. J.H. Mieres (Manhasset, US)	509



**12:35 - 13:50** **ROOM 2**

**Noninvasive CT coronary angiography - "The nuts and bolts"** **Special session supported by ASNC**

**Chairpersons: F. Wackers (New Haven, US); J.J. Bax (Leiden, NL)**

12:35	The basics of CT and CT angiography. A. De Roos (Leiden, NL)	510
12:55	Practical application of CT angiography. J.D. Schuijf (Leiden, NL)	511
13:15	Clinical perspectives in PET-perfusion / CT angiography. M.F. Di Carli (Boston, US)	512
13:35	Questions and answers.	513

# Wednesday 11 May 2005 - Afternoon

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14:00 - 15:30

ROOM 1

## Evidence based Guidelines

Core curriculum

**Chairpersons: K.A. Williams (Chicago, US); B. Hesse (Kobenhavn, DK)**

14:00	Stable CAD. B. Hesse (Kobenhavn OE, DK)	514
14:15	Post revascularisation. A. Lahiri (Edgware, GB)	515
14:30	Acute coronary syndromes. C. Anagnostopoulos (London, GB)	516
14:45	Pre-operative evaluation. E.E. Van Der Wall (Leiden, NL)	517
15:00	Diabetes. T. Miller (Rochester, US)	518
15:15	Discussion.	519

14:00 - 15:30

ROOM 2

## Novel agents for pharmacologic stress

Advances in nuclear cardiology

**Chairpersons: G.V. Heller (Hartford, US); V.M.M. Gil (Lisbon, PT)**

14:00	Pharmacology and experimental validation of A2a agonists. D.R. Glover (Charlottesville, US)	520
14:20	Comparative clinical results with A2a agonists. J.E. Udelson (Boston, US)	521
14:4	Will there still be a role for adenosine or dipyridamole? K. Brown (Burlington, US)	522
15:00	Caffeine/drug interactions. M. Bottcher (Aarhus, DK)	523
15:20	Discussion.	524

14:00 - 15:30

ROOM 3

## How to assess the results of therapy

Core curriculum

**Chairpersons: D. Le Guludec (Paris, FR); J.J. Mahmarian (Houston, US)**

14:00	Reproducibility of stress methods. H.R. Schelbert (Los Angeles, US)	525
14:15	Reproducibility of imaging methods. G. Germano (Los Angeles, US)	526
14:30	Assessment of medical therapy. R.G. Schwartz (Rochester, US)	527
14:45	Assessment of revascularisation. O. Masoli (Buenos Aires, AR)	528
15:00	Assessment of new therapeutics: (lasers, angiogenesis, gene therapy and stem cells). G.A. Beller (Charlottesville, US)	529
15:15	Discussion.	530

14:00 - 15:30

ROOM 4

## New tracers in nuclear cardiology

Advances in nuclear cardiology

**Chairpersons: T. Tanaka (Sapporo, JP); M. Schaeffers (Munster, DE)**

14:00	Metabolic imaging. R. Gropler (St. Louis, US)	531
14:20	Neuronal imaging. I. Carrio (Barcelona, ES)	532
14:40	Receptor imaging. M. Schaeffers (Munster, DE)	533
15:00	Imaging LV remodelling. A. Sinusas (New Haven, US)	534
15:20	Discussion.	535

