

FINAL PROGRAM, 8th EuroCMR Meeting - Florence 2010

Thursday, May 27th, 2010

11:30 – 19:00 Registration

**15:00 – 19:00 Satellite Symposium on Thalassemia
THALASSEMIA WORKSHOP**
 (This symposium is excluded from the EBAC accreditation credits)
 (Pitti Hall)



**Chair: Massimo Lombardi; (Pisa, Italy)
Marcello Capra; (Palermo, Italy)**

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| 15:00-15:05 | Introduction to the symposium |
| 1 | Massimo Lombardi; (Pisa, Italy)
Marcello Capra; (Palermo, Italy) |
| 15:05-15:20 | What to know about Thalassaemic Syndromes to do CMR |
| 2 | Maria Domenica Cappellini (Milan, Italy) |
| 15:20-15:35 | The heart in Thalassemia major and in Thalassemia intermedia: what to know from the cardiologist to do CMR |
| 3 | Mark Westwood (London, United Kingdom) |
| 15:35-15:50 | New chelation options in Thalassaemia and parameters to evaluate their efficacy |
| 4 | Renzo Galanello (Cagliari, Italy) |
| 15:50-16:05 | MR sequences in Thalassemia |
| 5 | Stathis D. Gotsis (Athens, Greece) |
| 16:05-16:20 | Image Analysis in Thalassemia |
| 6 | Vincenzo Positano (Pisa, Italy) |
| 16:20-16:40 | Discussion |

16:40-17:10 Coffee Break

**Chair: Caterina Borgna-Pignatti (Ferrara, Italy)
Alberto Roghi (Milan, Italy)**

17:10-17:25 T2* sequence from a research tool to the clinical arena
7 Dudley Pennell (London, United Kingdom)

17:25-17:40 MIOT study: the Italian MRI Network for Thalassemia
8 Alessia Pepe (Pisa, Italy)

17:55-18:40 CMR in Thalassemia: From national experiences to a European Consensus Document

17:55-18:10 The Point of View of the Thalassemologist
9 Aurelio Maggio (Palermo, Italy)

18:10-18:25 The Point of View of the Cardiology
10 Athanasios Aessopos (Athens, Greece)

18:25-18:40 The Point of View of the Cardiology in the CMR Lab
11 Sofia Mavrogeni (Athens, Greece)

18:40-19:00 Discussion

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11:30 – 19:00 Registration

12:00 – 13:00 Nucleus Meeting

15:00 – 18:00 Session I – Basic Course
(Parallel Session to Thalassemia Symposium)
(Pontevicchio Hall)

Chair: Jeanette Schulz-Menger (Berlin, Germany)

Ana Almeida (Lisbon Portugal)

- 15:00 – 15:30 Applied MR physics for the clinician - Basics
12 Elena Rizzo (Lausanne, Switzerland)
- 15:30 – 15:40 Update on Safety of MR
13 Roger Luechinger, (Zurich, Switzerland)
- 15:40 – 16:05 How to assess cardiac morphology and function by CMR
14 Ana Almeida (Lisbon, Portugal)
- 16:05 – 16:35 How to assess flow by CMR and principles of tagging
15 Hakan Arheden (Lund, Sweden)

16:40 – 17:20 Coffee Break

**Chair: Sven Plein (Leeds, United Kingdom)
Heiko Mahrholdt (Stuttgart, Germany)**

- 17:20 – 17:40 How to assess myocardial ischemia by CMR
16 Jürg Schwitter (Lausanne, Switzerland)
- 17:40 – 18:00 How to assess myocardial viability by CMR
17 Jeanette Schulz-Menger (Berlin, Germany)
- 18:00 – 18:20 How to image vessels - coronary arteries by CMR
18 Raad Mohiaddin (London, United Kingdom)
- 18:20 – 18:45 How to make good CMR images – avoid artefacts, optimise SNR etc
19 Sven Plein, Leeds (United Kingdom)

19:00 Wine & Cheese Reception with Poster Presentations

19:15 – 20:20 Poster Presentations I

Chair: Sofia Mavrogeni (Athens, Greece)

19:15 – 20:15 Poster Session I/I – Iron Detection

- 19:15 – 19:20 **P1** Advantage of Cardio-Magnetic Resonance over Echocardiography even for reduced sample size in the assessment of the results of alcohol septal ablation for hypertrophic Cardiomyopathy
 Egea-Serrano, Pilar. Caro, Pilar (*). Sancho, Manuel. Fernández-Rivero, Rafael. Zayas, Ricardo. Calle, Germán. Arana, Roque. Vázquez, Rafael
 Hemodinamic and Interventionist Unit. Puerta del Mar University Hospital. Cádiz. (*) DADISA Radiology Unit. Cádiz
- 19:20 – 19:25 **P2** Complementary assessment of Cardiac Tumors with Echocardiography, Cardiac Magnetic Resonance and Histology
 Samuela Carigi MD1, Francesca Marzo MD1, Marzio Pagliacci MD2, Rodolfo Leurini MD2, Silvia Amati MD1, Annarita Lombardi MD3, Marco Marconi MD1, Enrico Cavagna MD2, Giancarlo Piovaccari MD3.
 Cardiology¹, Radiology² and Anatomy Pathology³ Department, Infermi Hospital, Rimini, Italy
- 19:25 – 19:30 **P3** Precision of multi-echo CMR for myocardial iron overload evaluation is dependent from MR sequence design
 V. Positano¹, A. Meloni¹, A. Pepe¹, M. C. Dell'Amico¹, L. Menichetti¹, B. Favilli¹, C. Ascioti², M. C. Rizzello³, L. Landini¹, M. Lombardi¹.
 1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy.
 2 Cardioradiologia-UTIC “Giovanni Paolo II”, Lamezia Terme, Italy.
 3 Ospedale "Sant'Eugenio Papa"- Centro Talassemie, Roma, Italy.
- 19:30 – 19:35 **P4** Correlations between pancreatic iron burden and heart iron overload and function by MRI in a large cohort of thalassemia major patients
 A. Pepe¹, A. Meloni¹, V. Positano¹, M. Missere², M. C. Dell'Amico¹, B. Favilli¹, M. C. Rizzello³, L. Sardella⁴, G. Sallustio², M. Lombardi¹, G. Restaino²
 1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy; 2 Catholic University of the Sacred Heart, Department of Radiology, Campobasso, Italy; 3 Ospedale Sant'Eugenio Papa - Centro Talassemie, Roma, Italy; 4 A.S.L. BA - Osp. “Di Venere”, Bari, Italy.
- 19:35 – 19:40 Cardiac iron loading measured by multislice multiecho T2*

- P5** MRI and cardiac disease in male and female patients with thalassemia major
 A. Pepe¹, A. Meloni¹, M. Marsella², V. Caldarelli², G. Turla², M. C. Dell'Amico¹, E. Cracolici³, G. Valeri⁴, V. Positano¹, M. Lombardi¹, C. Borgna-Pignatti²
 1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy; 2 University of Ferrara, Department of Clinical and Experimental Medicine, Ferrara, Italy; 3 Department of Radiology, University of Palermo, Palermo, Italy; 4 Department of Radiology, University of Ancona, Ancona, Italy
- 19:40 – 19:45 **P6** Cardiac iron overload and function by CMR in different phenotypic groups of Thalassemia Intermedia patients
 M. C. Dell'Amico¹, A. Meloni¹, A. Filosa², V. Positano¹, B. Favilli¹, P. Keilberg¹, C. Salvatori¹, P. Pepe³, A. Ciancio⁴, E. Cracolici⁵, M. Lombardi¹ and A. Pepe¹.
 1 Fondazione G. Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy.
 2 UOC Pediatria - DH Talassemia - AORN A. Cardarelli, Napoli, Italy.
 3 Institute of Clinical Physiology of CNR, Epidemiology and Biostatistics Unit, Pisa, Italy.
 4 DH Talassemia, Ospedale Madonna delle Grazie, Matera, Italy.
 5 Istituto di Radiologia, Policlinico P. Giaccone, Palermo, Italy.
- 19:45 – 19:50 **P7** Reperfusion haemorrhage as determined by cardiovascular magnetic resonance imaging is associated with larger myocardial infarct size and is a predictor of ventricular arrhythmia
 Adam N Mather, Aleksandra Radjenovic, John P Greenwood, Sven Plein
 CMR Research Group, University of Leeds, United Kingdom
- 19:50 – 19:55 **P8** Myocardial Blood Flow and Fibrosis in Hypertrophic Cardiomyopathy: clinical correlates
 Todiere G, Aquaro GD, Barison A, Strata E, Marzilli M, Lombardi M, Pingitore A.
 Institute of Clinical Physiology, Fondazione G. Monasterio CNR-Regione Toscana, Pisa, Italy
- 19:55 – 20:00 **P9** T2* evaluation of iron overload at 3T and comparison with 1.5 T
 A. Meloni¹, D. De Marchi¹, A. Pepe¹, V. Positano¹, L. Menichetti¹, P. Keilberg¹, M. C. Dell'Amico¹, M. C. Rizzello², G. Valeri³ and M. Lombardi¹

- 1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy.
- 2 Ospedale Sant'Eugenio Papa - Centro Talassemie, Roma, Italy.
- 3 Department of Radiology, University of Ancona, Ancona, Italy.

20:00 – 20:05
P10 Prognostic risk stratification in non ischemic dilated cardiomyopathies: role of late gadolinium enhancement patterns

Martina Perazzolo Marra¹, Cacciavillani Luisa¹, Francesco Corbetti², Giovanni Maria Boffa¹, Giuseppe Tarantini¹, Cristina Basso³, De Lazzari Manuel¹, Veronica Spadotto¹, Filippo Zilio¹, Sabino Iliceto¹
¹ Division of Cardiology, Departments of Cardiac, Thoracic, and Vascular Sciences, University of Padua, Italy; ² Department of Radiology, Padua, Italy; ³ Cardiovascular Pathology, Department of Medical-Diagnostic Science and Special Therapies, University of Padua, Italy.

20:05 – 20:10
P11 Cardiac and Liver Iron Load Estimated by T2* and R2 Magnetic Resonance in Patients with Thalassemia Intermedia

A.Roghi², MD, Cappellini¹, KM, Musallam³, G.Graziadei¹, P.Pedrotti², A. Milazzo², I.Motta¹, AT.Taher³
¹Università di Milano, Policlinico Foundation IRCCS, Milan, Italy; ²Niguarda Hospital, Milan, Italy; ³American University of Beirut, Beirut, Lebanon

20:10 – 20:15
P12 Prevalence of fibrosis in thalassemia major assessed by late gadolinium enhancement CMR

Kirk P, Carpenter JP, Tanner MA, Pennell DJ.
 Royal Brompton Hospital, London, UK

19:15 – 20:20 Poster Session I/II – Ischemia Perfusion

Chair: Jeanette Schulz-Menger (Berlin, Germany)

19:15 – 19:20
P13 Microcirculation and its relation to Aortic Stiffness: An Adenosine Stress Cardiac Magnetic Resonance Study
 Deborah CH Chew, Dennis TL Wong, Matthew I Worthley
 Aberdeen Royal Infirmary

19:20 – 19:25
P14 Three-dimensional first-pass perfusion at 3T using a 32-channel phased-array coil
 M Milanese¹, L Marinelli², C J Hardy², T Foo², A Barison¹, P G Masci¹, V Positano¹, L Landini¹ and M Lombardi¹

1Fondazione G Monasterio CNR-Regione Toscana, Italy, 2General Electric, Global Research, Niskayuna, US

- 19:25 – 19:30 P15 The value of magnetic resonance scar quantification and low-dose dobutamine test for identifying reversible myocardial dysfunction
 S. Glaveckaite, N. Valeviciene, D. Palionis, M. Mataciunas, A. Laucevicius, V. Skorniakov, G. Uzdavinys
 Vilnius University hospital Santariskiu klinikos, Lithuania
- 19:30 – 19:35 P16 Role of first pass (FP) and delayed enhancement (DE) in functional recovery assessment after acute myocardial infarction (AMI)
 A. Bernardini², C. Napolitano¹, V. Semeraro¹, A. Meduri¹, A. Lombardo¹, L. Natale¹, L. Bonomo¹
 (1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale “G.Mazzini”, Teramo, Italy
- 19:35 – 19:40 P17 The Extent of Perfusion Defect at Myocardial Contrast Echocardiography is Closely Correlated with Myocardial Necrosis as Assessed by Magnetic Resonance Imaging after Acute ST-elevation Myocardial Infarction
 C. Napolitano¹, A. Bernardini², V. Semeraro¹, A. Meduri¹, L.Galiuto¹, L. Natale¹, L. Bonomo¹
 (1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale “G.Mazzini”, Teramo, Italy
- 19:40 – 19:45 P18 Visual semiquantitative assessment of delayed enhancement (DE) and first pass (FP) perfusion defects: Correlation with planimetric data and global functional outcome at follow up
 A. Bernardini², C. Napolitano¹, V. Semeraro, A. Meduri¹, A. Lombardo¹, L. Natale¹, L. Bonomo¹
 (1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale “G.Mazzini”, Teramo, Italy
- 19:45 – 19:50 P19 Transmural flow Heterogeneity can be demonstrated in normal volunteers using full quantification of KT-Sense accelerated myocardial perfusion at 3T
 Tim Lockie¹, Hanson Tang¹, Masaki Ishida², Kalpa De Silva¹, Sebastian Kozerke², Mike Marber¹, Eike Nagel², Sven Plein^{2, 3}

1Cardiovascular Research Division, The Rayne Institute, St Thomas' Hospital, KCL, London UK

2Division Imaging Sciences, The Rayne Institute, St Thomas' Hospital, KCL, London, UK

3 Academic Unit of Cardiovascular Medicine, University of Leeds, UK

- 19:50 – 19:55 **P20** Myocardial Perfusion Szintigraphy or Stress Cardiac Magnetic Resonance: Which is the ideal gatekeeper for the cathlab. An invasive comparison In Patients with Stable Coronary Heart Disease
H. W. Schuchlenz, M. Kuebeck, W. Weihs, P. Kullnig
LKH Graz West, * Diagnostikzentrum Graz
- 19:55 – 20:00 **P21** BOLD-sensitive magnetic resonance imaging in comparison to contrast-enhanced adenosine-stress perfusion for detection of inducible myocardial ischemia
Peter Bernhardt, Robert Gradinger, Jochen Spieß, Volker Rasche, Vinzenz Hombach
Department of Internal Medicine II, University of Ulm, Ulm, Germany
- 20:00 – 20:05 **P22** Stress cardiac magnetic resonance in an outpatient setting: a four year experience in more than 1000 patients
Susanna Prat- Gonzalez¹, Golmehr Ashrafpoor¹, Amir-Ali Fassa ¹, Yannick Magliano² Alain Naïmi ², Juan Sztajzel ²
¹ Cardiology Service, Geneva University Hospitals, Geneva, ² Centre de Diagnostic Radiologique de Carouge, Switzerland
- 20:05 – 20:10 **P23** Stress Cardiac Magnetic Resonance Imaging in elderly patients
Susanna Prat-Gonzalez¹, Golmehr Ashrafpoor¹, Amir-Ali Fassa ¹, Yannick Magliano ², Alain Naïmi ², Juan Sztajzel ²
¹ Cardiology Service, Geneva University Hospitals, Geneva, ² Centre de Diagnostic Radiologique de Carouge, Switzerland
- 20:10 – 20:15 **P24** Exercise electrocardiography correlates poorly to non-invasive anatomical and functional imaging modalities for the diagnostic evaluation of coronary artery disease
JGJ Groothuis, AM Beek, SL Brinckman, G Singh, MR Meijerink, MBM Hofman, AC van Rossum
VU University Medical Center, Amsterdam, the Netherlands
- 20:15 – 20:20 Comparison between first-pass enhancement and delayed

- P25** hypoenhancement on cardiac magnetic resonance after reperfused acute myocardial infarction. Relationship between cardiac magnetic resonance and angiography
 Martina Perazzolo Marra¹, Luisa Cacciavillani¹, Giuseppe Tarantini¹, Francesco Corbetti², Massimo Napodano¹, Cristina Basso³, Manuel De Lazzari MD¹, Armando Marzari¹, Francesco Maddalena¹, Sabino Iliceto¹
 1 Division of Cardiology, Departments of Cardiac, Thoracic, and Vascular Sciences, University of Padua, Padua, Italy; 2 Department of Radiology, Padua, Italy; 3 Cardiovascular Pathology, Department of Medical-Diagnostic Sciences, University of Padua, Padua, Italy

19:15 – 20:15 Poster Session I/III - Infarction and differential diagnosis

Chair: Ana Almeida (Lisbon, Portugal)

- 19:15 – 19:20 MRI evaluation of the role of No-Reflow in left ventricular remodelling after Acute Myocardial Infarction (AMI)
P26
 A. Bernardini², C. Napolitano¹, V. Semeraro¹, A. Meduri¹, A. Lombardo¹, L. Natale¹, L. Bonomo¹
 (1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale "G.Mazzini", Teramo, Italy
- 19:20 – 19:25 Right ventricular ischemic injury in patients with acute ST-segment elevation myocardial infarction
P27
 PG. Masci, M. Francone, J. Ganame, W. Desmet, I. Carbone, E. Strata, G. Todiere, L. Agati, M. Lombardi, S. anssens, J. Bogaert
 Fondazione G. Mostaterio/CNR Regione Toscana
- 19:25 – 19:30 Incremental prognostic value of fibrosis in patients with known or suspected heart failure
P28
 Masliza Mahmod, Khaled Mahmoud-Tawfik, Isabelle Roussin, Cheuk Chan, Francisco Alpendurada, Sanjay Prasad, Dudley Pennell
 Cardiovascular Magnetic Resonance Unit, Royal Brompton Hospital, London, UK
- 19:30 – 19:35 Association between early reduction of QT Dispersion and

- P29** Microvascular Obstruction among Patients with acute Non-ST-Segment Myocardial Infarction Assessed by Cardiac Magnetic Resonance Imaging Resonance Imaging
 Ch. J. Jensen¹, S. Lusebrink¹, H.-C. Eberle¹, T.Schlosser², K.Nassenstein², C.K. Naber¹, G.V. Sabin¹, O.Bruder¹
¹Department of Cardiology and Angiology, Elisabeth Hospital Essen, Germany, ²Department of Diagnostic and Interventional Radiology and Neuroradiology, University of Essen, Germany
- 19:35 – 19:40
P30 Microvascular obstruction assessed by CMR imaging in NSTEMIs is associated with adverse outcome
 J. Wong, DV. Anand, E. Wicks, R. Boubertakh, K. Naeem, T. Burchill, PG. Mills, SE. Petersen, A. Mathur, LC. Davies, MA. Westwood
 The London Chest Hospital, London, United Kingdom
- 19:40 – 19:45
P31 Role of cardiac magnetic resonance in the evaluation of myocardial tissue abnormalities underlying different values of coronary flow reserve in patients with acute myocardial infarction
 Perazzolo Marra M1, Tona F1, Cacciavillani L1, Tarantini G1, Corbetti F2, De Lazzari M1, China P1, Iliceto
 1 Clinical Cardiology, Department of Cardiac, Thoracic and Vascular Sciences, University of Padova, Padova, Italy; 2 Division of Radiology, Padova, Italy
- 19:45 – 19:50
P32 Acute Myocarditis Presenting as Acute Coronary Syndrome. Diagnostic Importance of Early Cardiac Magnetic Resonance Imaging
 Monney P, Sehri N, Burchell TR, Wong J, Wragg A, Jain A, Deaner A, Knight C, Petersen S, Davies LC, Westwood MA, Mills PG, Mathur A, Mohiddin SA
 Department of Cardiology, The London Chest Hospital, Barts and the London NHS Trust, London, UK
- 19:50 – 19:55
P33 Myocarditis: can trueFISP used for movies replace sequences dedicated for delayed contrast enhancement?
 Thomas Hafner (1), Katharina Gammer (1), Sabine Hoffmann (1), Barbara Horvath-Mechtler (2), Christine Krammer (2), Wolfgang Kumpan (2), Andrea Podczeck-Schweighofer (1)
 (1) Department of Cardiology, Kaiser Franz Josef Spital, Vienna, Austria
 (2) Department of Radiology, Kaiser Franz Josef Spital, Vienna, Austria
- 19:55 – 20:00 Takotsubo cardiomyopathy with ST-segment elevation;

- P34** clinical characteristics and contribution of cardiovascular magnetic resonance
 Stensaeth KH, Fossum E, Mangschau A, Skretteberg PT, Hoffmann P, Klow NE
 Oslo University Hospital, Ullevaal, Oslo, Norway
- 20:00 – 20:05
P35 Cardiovascular Magnetic Resonance in Patients with Chronic Heart Failure Suspected of Myocarditis. A Comparison to Immunohistology
 Karol Miszalski-Jamka MD, Jolanta Nowak MD, Beata Spinczyk MD, Jan Glowacki MD, Zbigniew Kalarus MD PhD, Romuald Wojnicz MD PhD
 Silesian Center for Heart Disease, Zabrze, Poland
- 20.05 – 20.10
P36 The extent of right ventricle dysfunction and myocardial infarction are independent outcome predictors early after ST segment elevation myocardial infarction
 Tomasz Miszalski-Jamka, Piotr Klimeczek, Marek Tomala, Maciej Krupiński, George Zawadowski, Jessica Noelting, Michał Lada, Katarzyna Sip, Robert Banyś, Krzysztof Żmudka, Mieczysław Pasowicz
 Center for Diagnosis, Prevention and Telemedicine, John Paul II Hospital, Kraków, Poland
- 20.10 – 20.15
P37 Hibernating myocardium in patients with suspected cardio embolic stroke
 Petri Sipola^{1,4}, Pekka Jäkälä^{2,4}, Ritva Vanninen^{1,4} Marja Hedman^{1,3}
 Departments of ¹Clinical Radiology, ²Neurology, and ³Heart Center Kuopio University Hospital and ⁴University of Eastern Finland, Kuopio, Finland

Friday, May 28th, 2010

7:30 Registration

8:45 Welcome Address

Jürg Schwitter (Lausanne, Switzerland)
Massimo Lombardi (Chair WG EuroCMR 2010)

9:00 – 9:30 Opening Plenary Session

**Chair: Massimo Lombardi (Pisa, Italy)
Jürg Schwitter (Lausanne, Switzerland)**

9:00 – 9:30
20 CMR imaging of myocardial infarction: from concepts to clinical trials
A historical perspective
Albert van Rossum (Amsterdam, The Netherlands)

9:30 – 11:00 **Session II - Where CMR makes a difference in common clinical scenarios**

**Chair: Jeanette Schulz-Menger (Berlin, Germany)
Peter Buser (Basel, Switzerland)**

09:30 – 09:50
21 Hypertrophic cardiomyopathy: Using CMR to link genetics with phenotypes
James Moon; London (United Kingdom)

09:50 – 10:15
22 How a heart failure CMR service can improve patient care
Dudley Pennell (London, United Kingdom)

10:15 – 10:35
23 Myocarditis: do we still need cardiac biopsies or can CMR provide all the information?
Heiko Mahrholdt (Stuttgart, Germany)

10:35 – 10:55
24 The role of CMR in pulmonary arterial hypertension
Gert Jan Mauritz (Amsterdam, The Netherlands)

9:30 – 11:00 **Parallel Session III - New Technologies – Future Perspectives – Nuclei and Tesla's (Pitti Hall)**

**Chair: Rene Botnar (London, UK)
Jürg Schwitter (Lausanne, Switzerland)**

09:30 – 09:50
25 Field strengths: 1.5T, 3T, 7T, and more
Florian von Knobelsdorff (Berlin, Germany)

- 09:50 – 10:15 **26** Vessel wall and targeted imaging: How deep are we in-it?
Rene Botnar (London, United Kingdom)
- 10:15 – 10:35 **27** ¹⁹F-MR-Imaging: Extending the frontiers of CMR
Ulrich Flögel (Düsseldorf, Germany)
- 10:35 – 10:55 **28** Hyperpolarized ¹³C-Metabolic imaging – a new era of MR?
Damian Tyler (Oxford, United Kingdom)
- 11:00 – 11:30 Coffee Break:**
- 11:30 – 12:30 Session IV – Read with the Experts 1:
The Best Cases from around Europe**
- Chair: James Moon (London, United Kingdom)
Heiko Mahrholdt (Stuttgart, Germany)**
- 11:30 – 11:45 **29** Case 1: Cases from Amsterdam
Albert van Rossum (Amsterdam, The Netherlands)
- 11:45 – 11:55 **30** Case 2: Cases from Basel
Peter Buser (Basel, Switzerland)
- 11:55 – 12:10 **31** Case 3: Cases from Tulln
Herbert Frank (Tulln, Austria)
- 12:10 – 12:25 **32** Case 4: Cases from Pisa
Massimo Lombardi (Pisa, Italy)
- 11:30-13:20 Parallel Session V: Technologists Round Table
(Pitti Hall)**
- Chair:**
- 1. Petra Keilberg (Pisa, Italy)**
 - 2. Denise Kleindienst (Berlin, Germany)**
 - 3. Peter Drivas (London, United Kingdom)**
- 11:30 – 11:35 Opening Remarks - Welcome
- 11:35 – 12:05 Basics of CMR

- 33 Petra Keilberg (Pisa, Italy)
- 12:05 – 12:35 Viability Study
- 34 Denise Kleindienst (Berlin, Germany)
- 12:35 – 13:05 MR – Angiography
- 35 Peter Drivas (London, United Kingdom)
- 13:05 – 13:20 Technologist’s Round Table & Discussion
- 12:30-13:30 Session VI – Selected Abstracts:
Ischemic Heart Disease**
- Chair: Raad Mohiaddin ; London, United Kingdom
Ana Almeida; Lissabon, Portugal**
- 12:30 – 12:38 A systematic achievement of a 3 Teslas CMR for patients
36 with troponin elevated acute chest pain syndrome and unobstructed coronary arteries
 G Leurent, B Langella, C Fougerou, PA Lentz, A Larralde, M Bedossa, D Boulmier, H Le Breton
 Département de Cardiologie et Maladies Vasculaires, CHU de Rennes, France; Département de Radiologie et d’Imagerie Médicale, CHU de Rennes, France; Centre d’Investigation Clinique, CHU de Rennes, France
- 12:38 – 12:46 Five-year follow-up of elderly subjects with unrecognized
37 myocardial infarction
 Charlotte Ebeling Barbier* MD, Lars Johansson*†, PhD, Tomas Bjerner* MD, PhD, Lars Lind‡, MD, PhD, and Håkan Ahlström* MD, PhD
 * Department of Radiology, Uppsala University Hospital, Sweden
 † Astrazeneca, Gothenburg, Sweden
 ‡ Department of Medicine, Uppsala University Hospital, Sweden
- 12:46 – 12:54 Cardiovascular Magnetic Resonance Imaging for evaluation
38 of differential pulmonary blood flow in congenital heart disease with S/P RVOT-PA reconstruction and pulmonary branches anomalies. Comparison with Lung Perfusion Scintigraphy

R.Crepaz*, J.Stuefer**, M.Guerriero^, C.Romeo*, C.Pedron°,
G.Bonatti**, W.Pitscheder*

Department of Cardiology and Paediatric Cardiology *, Radiology
**, Paediatrics ° – Regional Hospital of Bolzano
Department E.S.I. Section of Statistics^ – University of Verona

- 12:54 – 13:02 39 Myocardial perfusion increases by adenosine after 12 and 24 hour caffeine abstinence
Marcus Carlsson, Karin Markenroth, Bo Hedén, Freddy Ståhlberg, Håkan Arheden
Department of Clinical Physiology, Department of Radiation Physics, Lund University Hospital
- 13:02 – 13:10 40 Mild coronary calcification is associated with reduced regional and global stress myocardial perfusion
JGJ Groothuis, AM Beek, SL Brinckman, MR Meijerink, FPPJ Kremers, MBM Hofman, AC van Rossum
VU University Medical Center, Amsterdam, The Netherlands
- 13:10 – 13:18 41 Post-infarction ventricular remodeling: a geometric point of view
Tirza Springeling, Andre Uitterdijk, Alexia Rossi, Piotr A. Wielopolski, Willem J. van der Giessen, Dirk J. Duncker, Pim J. de Feyter, Robert-Jan M. van Geuns
Erasmus MC, The Netherlands
- 13:18 – 13:26 42 Three-Dimensional Myocardial MR Perfusion Imaging using k-t SENSE
Kalpa De Silva, Tim Lockie, Simon Redwood, Divaka Perera, Sebastian Kozerke, Eike Nagel, Sven Plein
The Rayne Institute, King's College London, St. Thomas' Hospital, London, UK
- 13:30-14:30 Session VII – Industry Forum & Lunch**
- Chair: Massimo Lombardi (Pisa, Italy)**
Herbert Frank (Tulln, Austria)
- 13:30 – 14 :30 43 New Frontier of CMR
Maggie Fung (General Electric Healthcare)
Reto Merges (Siemens)
- 14:30 – 15:00 Session VIII – Read with the Experts 2:**

**The Best Cases from around Europe
 Multimodality Cases**

**Chair: Dudley Pennell (London, United Kingdom)
 Anja Wagner (Philadelphia, USA)**

14:30 – 14:40 Cases from Leeds
 44 Sven Plein (Leeds, United Kingdom)

14:40 – 14:50 Cases from Lissabon
 45 Ana Almeida (Lissabon, Portugal)

14:50 – 15:00 Cases from Essen
 46 Oliver Bruder (Essen, Germany)

**15:00 – 16:00 Session IX – Where CMR makes a difference: CMR
 Guidance for Interventions and Treatment of
 Arrhythmias**

**Chair: Frank Rademakers (Leuven, Belgium)
 Albert van Rossum (Amsterdam, The Netherlands)**

15:00 – 15:10 Significance of left atrium size and diastolic dysfunction
 47 Frank Rademakers (Leuven, Belgium)

15:10 – 15:20 Ablations in the CMR environment
 48 Tobias Schaeffter (London, United Kingdom)

15:20 – 15:30 CMR guidance for percutaneous valve implantations
 49 Carl Schulz (Rotterdam, The Netherlands)

15:30 – 15:40 Computerized evaluation of postischemic myocardium and
 50 mitral valve function
 Oberdan Parodi (Milan, Italy)

15:40 – 15:50 CMR guidance for CRT: better than echo?
 51 Jürg Schwitler (Lausanne, Switzerland)

16:00 – 16:20 Coffee Break and Poster Presentation II

16:00 – 16:20 Poster Session II/I – Metabolism

Chair: Oliver Bruder (Essen, Germany)

- 16:00 – 16:05 Myocardial structural, perfusional and metabolic
P38 correlates of left bundle branch block mechanical derangements in patients with dilated cardiomyopathy
 PG. Masci, M. Marinelli, M. Piacenti, V. Lorenzoni, V. Positano, M. Lombardi, A. L'abbate, D. Neglia
 Fondazione G.Monaterio CNR/Regione Toscana – Istituto di Fisiologia Clinical CNR – Pisa- Italy
- 16:05 – 16:10 Assessing Cardiac Metabolism with ¹³C – Magnetic
P39 Resonance spectroscopy and hyperpolarized [1-¹³C] pyruvate in minipigs
 F. Frijia 1, L. Menichetti 2, V. Lionetti 3, MF. Santarelli 2, JH. Ardenkjaer-Larsen 4, G. Giovannetti 2, M. Milanese 1, V. Positano 1, A. Flori 5, D. De Marchi 1, G. Aquaro 1, M. Campan 3, F. A. Recchia 1,6, L. Landini 1, M. Lombardi 1
 1 Institute of Clinical Physiology, National Council of Research, Pisa, Italy; 2 Fondazione G.Monasterio CNR-Regione Toscana, Pisa; 3 Sector of Medicine, Scuola Superiore Sant'Anna, Pisa; 4 GE Healthcare, Huginsvej 8, 3400 Hillerod, Denmark; 5 Department of Physics, University of Pisa, Pisa, Italy; 6 Department of Physiology, New York Medical College, Valhalla, New York
- 16:10 – 16:15 In vivo and in vitro spectroscopy of LDH isoenzyme
P40 activities using hyperpolarized [1-¹³C] pyruvate
 A.Flori¹, L. Menichetti², F. Frijia³, MF. Santarelli², C.Forte⁴, L.Calucci⁴, M. Milanese 3, G. Giovannetti², D. De Marchi³, F.A. Recchia⁵, L. Landini³, M. Lombardi³
 1 Faculty of Physics, University of Pisa, Pisa, Italy; 2 Institute of Clinical Physiology, National Council of Research, Pisa, Italy; 3 Fondazione G.Monasterio CNR-Regione Toscana, Pisa; 4 Institute of Chemical and Physics Processes, National Council of Research, Pisa, Italy; 5 Sector of Medicine, Scuola Superiore Sant'Anna, Pisa and Department of Physiology, New York Medical College, Valhalla, New York
- 16:15 – 16:20 Cardiac Involvement in patients with family amyloid
P41 polyneuropathy early demonstration with Cardiac Magnetic Resonance
 Rocco Donato, Michele Gaeta, Anna Mazzeo, Fabio Minutoli, Gianluca di Bella

Department of Radiological Sciences, University of Messina, Messina, Italy

16:00 – 16:20 Poster Session II/II - Function and Image Analysis

Chair: Anja Wagner (Philadelphia, USA)

16:00 – 16:05 An image analysis tool for global and regional quantitative
P42 assessment of myocardial necrosis by CMR
 V. Positano¹, M Marinelli², E. Caiani³, A. Pingitore², A. Redaelli³, M. Lombardi¹, M.F. Santarelli², L. Landini¹, O. Parodi²
 1MRI Laboratory, Fondazione G. Monasterio CNR-Regione Toscana, Pisa, Italy 2Institute of Clinical Physiology, Pisa and Milan, Italy 3Dept. Bioengineering, Politecnico di Milano, Milano, Italy

16:05 – 16:10 Dynamic Substrate Mapping for detection human
P43 myocardial scar tissue
 C. Napolitano¹, A. Bernardini², V. Semeraro¹, A. Meduri¹, A. Dello Russo¹, L. Natale¹, L. Bonomo¹
 (1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale "G.Mazzini", Teramo, Italy

16:10 – 16:15 Rapid left assessment of left ventricular volumes and
P44 function using radial long axis geometry
 Peter Bernhardt, MD, Jochen Spieß, MD, Axel Bornstedt, PhD, Vinzenz Hombach, MD, Volker Rasche, PhD
 Department of Internal Medicine II, University of Ulm, Ulm, Germany

16:15 – 16:20 Left ventricle modelling: a functional predictive tool for the
P45 evaluation of the post-operative mechanical performance
 E. Votta, C.A. Conti, M. Lombardi, E. Caiani, G. Aquaro, O. Parodi, A. Redaelli
 Politecnico di Milano, Milano, Italy; CNR Clinical Physiology Institute and G. Monasterio Foundation, Pisa, Italy

16:00 – 16:20 Poster Session II/III - Risk factors and physiology

Chair: Heiko Mahrholdt (Stuttgart, Germany)

16:00 – 16:05 Absence of late gadolinium enhancement does not exclude
P46 severe coronary artery disease
 R Wassmuth, M Prothmann, J Schulz-Menger
 Helios Klinikum and Charite Medical University Berlin, Germany

- 16:05 – 16:10 Relationship between right and left ventricle mass in
P47 uncomplicated systemic arterial hypertension: a study with
 cardiac magnetic resonance
 Giancarlo Todiere, Giacinta Guarini, Danilo Neglia, Sergio Ghione,
 Enza Fommei, Paolo Camici, Giulia
 Institute of Clinical Physiology, Fondazione G. Monasterio CNR-
 Regione Toscana, CNR, Pisa. Italy
- 16:10 – 16:15 Determination of CMR derived regional and local aortic
P48 pulse wave velocity in healthy volunteers and patients with
 coronary artery disease
 Klug G, Hecker U, Kremser C, Mayr A, Voelkl J, Trieb T, Schocke M,
 Jaschke W, Pachinger O, Metzler B
 Medical University Innsbruck, Department of Internal Medicine III,
 Department of Radiology
- 16:15 – 16:20 Set Up and Impact of a Technologist Supervised Adenosine
P49 Stress Cardiac MR Service
 Alison Fletcher, Dr Charles Peebles, Dr Stephen Harden
 Southampton University Hospitals Trust
- 16:20-17:20 Session X – Imaging of the Coronary Arteries and Great
 Vessels: What is the Role of CMR today?**
- Chair: Matthijs Oudkerk (Groningen, The Netherlands)
 Matthias Stuber (Lausanne, Switzerland)**
- 16:20 – 16:40 Coronary MRA: current status and perspectives
52 Matthias Stuber (Lausanne, Switzerland)
- 16:40 – 16:55 Aortic Diseases: CMR versus CT and Echo
53 Raad Mohiaddin (London, United Kingdom)
- 16:55 – 17:15 Pulmonary Arteries: the unique role of CMR
54 Matthijs Oudkerk (Groningen, The Netherlands)
- 17:30 – 18:30 VPH2 – Meeting**
- 17:30 – 18:30 Session XI – Best Abstracts**

Chair: Massimo Lombardi (Pisa, Italy)
Herbert Frank (Tulln, Austria)

- 17:30 – 17:39 55 The development of hypertrophy and myocardial fibrosis in asymptomatic MvBPC3 gene mutation carriers: mid-term follow-up results
 W Brouwer, T Germans, AM Beek, AC Houweling, I Christiaans, J van der Velden, AAM Wilde, AC van Rossum
 VU University Medical Center Amsterdam
- 17:39 – 17:48 56 Myocardial fibrosis by delayed enhancement cardiovascular magnetic resonance and HCV infection in thalassemia major patients
 A. Pepe¹, A. Meloni¹, Z. Borsellino², M. C. Dell'Amico¹, C. Borgna-Pignatti³, A. Maggio⁴, V. Positano¹, E. Cracolici⁵, M. Lombardi¹, M. Capra²
 1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy; 2 P.O. G. Di Cristina, ARNAS Civico, Palermo, Italy; 3 University of Ferrara, Department of Clinical and Experimental Medicine, Ferrara, Italy; 4 Ematologia II con Talassemia, "V. Cervello" Hospital, Palermo, Italy; 5 Department of Radiology, University of Palermo, Palermo, Italy.
- 17:48 – 17:57 57 Importance of CMR in conveying additional predictive outcome values for patients with suspected ARVC
 M. Deac, R. Vimal, F. Fanaie, C. Miller, A. Dawson, J. Wong, D. Dawson, I. Roussin, M. Roughton, DJ. Pennell, SK. Prasad
 CMR Unit, Royal Brompton & Harefield Foundation Trust, London UK; Imperial College, London, United Kingdom
- 17:57 – 18:06 Cost benefit assessment of cardiac magnetic resonance imaging in acute coronary syndrome and unobstructed coronary angiograms
 P. Monney, TR. Burchell, P. Wright, N. Sekhri, K. Khimdas, J. Wong, A. Wragg, A. Deaner, PG. Mills, C. Knight, LC. Davies, A. Mathur, MA. Westwood, SA. Mohiddin
 Department of Cardiology, The London Chest Hospital, Barts and the London NHS Trust, London, UK
- 18:06 – 18:15 59 Myocardial edema detection after acute myocardial infarction: comparison between qualitative T2weighted imaging and quantitative T2 mapping
 Tirza Springeling, Adriaan Moelker, Alexia Rossi, Piotr Wielopolski, Gyula Kotek, Pim J. de Feijter, Robert-Jan M. van Geuns
 Erasmus MC, Rotterdam, the Netherlands

- 18:15 – 18:24
60 Carotid atheroma composition as determined by Magnetic Resonance predicts Coronary artery disease severity
Ilias Kylintireas, Cheerag Shirodaria, Justin Lee, Charalambos Antoniades, Matthew Robson, Jane Francis, Stefan Neubauer, Keith Channon, Robin Choudhury
Department of Cardiovascular Medicine, University of Oxford, Oxford, United Kingdom
- 18:30– 19:00** **Session XII – The CMR European Community European Registry on CMR**
- Chair:** **Heiko Mahrholdt (Stuttgart, Germany)**
 Massimo Lombardi (Pisa, Italy)
- 18:30 – 18:40
61 Current status – participating sites
Oliver Bruder (Essen, Germany)
- 18:40 – 18:45
62 Quality Aspects
Jürg Schwitter (Lausanne, Switzerland)
- 18:45 – 19:00
63 Substudies
Eike Nagel (London, United Kingdom)

Saturday, May 29th, 2010

7:30 – 9:30 Steering Meeting (Organisation by Dr. Aker)

**8:30 – 9:30 Session XIII – Where CMR makes a difference in
common Congenital Problems: Imaging the
Postoperative Tetralogy of Fallot**

**Chair: Emanuela Valsangiacomo-Büchel (Zurich, Switzerland)
Willem A. Helbing (Rotterdam, The Netherlands)**

08:30 – 08:40 Tricks and Pitfalls of CMR in congenital heart disease
64 Christian Kellenberger (Zurich, Switzerland)

08:40 – 08:50 CMR for timing pulmonary valve replacement
65 Emanuela Valsangiacomo-Büchel (Zurich, Switzerland)

08:50 – 09:00 Advanced Imaging in TOF – The role of Dobutamine stress
test
66 Willem A. Helbing (Rotterdam, The Netherlands)

09:00 – 09:10 Transcutaneous pulmonary valve replacement – does
imaging help?
67 Vivek Muthurangu (London, United Kingdom)

09:10 – 09: 20 Postoperative TOF – bringing Imaging into clinics
68 Pierluigi Festa (Pisa, Italy)

09:30 – 10:30 Session XIV – Selected Abstracts: Cardiomyopathy

**Chair: Matthias Friedrich (Calgary, Canada)
James Moon (London, United Kingdom)**

09:30 – 09:38 Effect of myocardial iron removal on right ventricular
69 function: insights from a randomized, placebo controlled,
double-blind trial in thalassemia major
F Alpendurada, JP Carpenter, GC Smith, MA Tanner, W Banya, R
Galanello, DJ Pennell
Royal Brompton Hospital, London

- 09:38 – 09:46
70 Myocardial late gadolinium enhancement extension on cardiac magnetic resonance images as a predictor of cardiac events in heart transplant patients
Patrizia Pedrotti, MD1, Claudia Vittori, MD1, Stefano Pedretti, MD1, Santo Dellegrottaglie, MD, PhD2, Angela Milazzo, MD1, Manlio Cipriani, MD1, Maria Frigerio, MD1, Francesco Mauri, MD1 and Alberto Roghi, MD1
1De Gasperis Cardiology Department, Niguarda Ca'Granda Hospital, Milan, Italy; 2 Federico II University, Naples, Italy
- 09:46 – 09:54
71 The impact of tricuspid regurgitation in Ebsteins anomaly compared with pulmonary regurgitation in repaired Tetralogy of Fallot on cardiac output and exercise capacity
Sylvia SM Chen, Konstantinos Dimopoulos, Michael A. Gatzoulis and Philip J. Kilner
The Royal Brompton Hospital and Imperial College London
- 09:54 – 10:02
72 Determinants of ventricular responses to increased aortic stiffness at rest and stress are gender-specific: a dobutamine-stress magnetic resonance imaging study
Valentina O. Puntmann1,2, MRCP, MD, PhD; Cosima Jahnke1, MD; Jesus G. Mirelis1, MD; Kevin F. Fox2, MD FRCP FESC; Rolf Gebker1, MD; Bernhard Schnackenburg1, PhD; Eckart Fleck1, MD; Ingo Paetsch1, MD
The German Heart Institute Berlin, Germany1, Imperial College London, United Kingdom2
- 10:02 – 10:10
73 A T2* MRI Prospective Survey on Heart and Liver Iron in Thalassemia Major patients treated with Deferasirox, Deferiprone and Desferrioxamine
A. Pepe1, G. Rossi2, A. Meloni1, MC Dell'Amico1, A. Spasiano3, M. Capra4, P. Cianciulli5, V. Caruso6, B. Favilli1, E. Cracolici7, M. Lombardi1 and A. Maggio8
1 Fondazione G.Monasterio CNR - Regione Toscana and Institute of Clinical Physiology, Pisa, Italy.
2 Institute of Clinical Physiology of CNR, Epidemiology and Biostatistics Unit, Pisa, Italy.
3 Unità Microcitemia – AORN A. Cardarelli, Napoli, Italy.
4 Servizio Prevenzione, Diagnosi e Cura Talassemia - Ospedale G. di Cristina, Palermo, Italy.
5 Centro Talassemie – Ospedale S. Eugenio Papa, Roma, Italy.
6 Centro Microcitemia - Ospedale Garibaldi, Catania, Italy.
7 Istituto Radiologia – Policlinico P. Giaccone, Palermo, Italy.

8 Ematologia II con Talassemia – Ospedale V. Cervello, Palermo, Italy.

10:10 – 10:18
74
Myocardial delayed enhancement in nonischemic dilated cardiomyopathy: prognostic role in paucisymptomatic patients
Andrea Barison, Pier Giorgio Masci, Giovanni Donato Aquaro, Matteo Milanesi, Alessandro Pingitore, Claudio Passino, Michele Emdin, Massimo Lombardi
Scuola Superiore “Sant’Anna” and “G. Monasterio” CNR - Regione Toscana Foundation, Pisa, Italy

10:18 – 10:26
75
The Prevalence of Right Ventricular Systolic Dysfunction in Dilated Cardiomyopathy. A CMR study
R. Gordon, A.Gulati, S.Joshi, A. Jabbour, B. Saville, S Raza, G Manolis, S.Prasad
Royal Brompton Hospital, National Heart and Lung Institute, Imperial College

10:30-11:00 Coffee Break and Poster Presentations III

**10:30-10:55 Poster Session III/I
Adult Congenital Heart Disease and Valves – 1**

Chair: Steffen Petersen (London, United Kingdom)

10:30 – 10:35
P 50
Three-Dimensional Analysis of Septal Curvature from Cardiac Magnetic Resonance Images for the Evaluation of Severity of Pulmonary Hypertension
Francesco Maffessanti, Maria-Agustina Sciancalepore, Amit R. Patel, Mardi Gomberg-Maitland, Enrico G. Caiani, Benjamin H. Freed, Roberto M. Lang, Victor Mor-Avi
University of Chicago, Chicago, Illinois, USA, and Politecnico di Milano, Milan, Italy

10:35 – 10:40
P51
Four-dimensional phase contrast imaging demonstrates variability of intra-cardiac flow patterns in newborn infants
Giuliana Durighel¹, Nora Tusor¹, Reza Razavi², Jo Hajnal¹, David Edwards¹, Alan Groves¹
Division of Clinical Sciences, Imperial College London and MRC Clinical Sciences Centre, U.K
Division of Imaging Sciences, King’s College London, U.K

10:40 – 10:45 Can the outcome of post partum cardiomyopathy be

- P52** predicted using late gadolinium enhancement CMR?
 Isabelle Roussin, MD, Chirine Parsai, MD, Sanjay Prasad, MD, MRCP,
 Dudley Pennell, MD, FRCP, FESC, FACC
 Royal Brompton Hospital, London, UK
- 10:45 – 10:50
P53 4-Dimensional Magnetic Resonance Imaging Reveals
 Different Flow-Patterns after Various Forms of Aortic Valve
 Replacement
 Florian von Knobelsdorff-Brenkenhoff, MD (1); Ralf Wassmuth, MD
 (1); Michael Markl, PhD (2); Jeanette Schulz-Menger, MD (1)
 (1) Working Group on Cardiovascular MRI, Charité Medical University
 Berlin, HELIOS-Klinikum Berlin-Buch, Germany
 (2) Dept. of Radiology / Medical Physics, University Hospital Freiburg,
 Germany
- 10:50 – 10:55
P54 MR angiography vs CT angiography in the follow up of
 endovascular thoracic aortic repair
 Gianluca Piccoli, Francesco Toso, Gianaugusto Slavich*, Saverio
 Grillane, Igor Vendramin*, Ugolino Livi*, Daniele Gasparini
 Vascular and Interventional Radiology Unit. Udine University Hospital.
 Udine Italy, * Cardiothoracic DPT, Udine University Hospital. Udine
 Italy
- 10:30-11:00** **Poster Session III/II**
Adult Congenital Heart Disease and Valves – 2
- Chair:** **Oliver Bruder (Essen, Germany)**
- 10:30 – 10:35
P55 Atrial baffles anomalies in transposition of the great arteries
 after atrial switch: diagnosis and clinical significance
 G. Trocchio a, L. Ait-Ali b-c, F. Rizzo d, P. Tomà d, M. Marasini a, P. Festa
 b-c
 a Cardiovascular Department, Istituto Giannina Gaslini, Genova, b O.U.
 Pediatric Cardiology, c MRI Lab IFC, Fondazione Gabriele Monasterio CNR,
 Massa-Pisa, d Service of Radiology, Istituto Giannina Gaslini, Genova.
- 10:35 – 10:40
P56 Patient-specific modelling of the mitral valve based on
 cardiac magnetic resonance imaging
 C.A. Conti, M. Stevanella, D. De Marchi, F. Maffesanti, E. Caiani, M.
 Lombardi, O. Parodi, A. Redaelli

 Politecnico di Milano, Milano, Italy; CNR Clinical Physiology Institute
 and G. Monasterio Foundation, Pisa, Italy

- 10:40 – 10:45 **P57** MRI predictive factors of residual systemic hypertension in aortic coarctation after percutaneous stent
 L. Ait-Ali*[^], S. Recla*, S. Kull*, A. Ripoli[°], M. Deiana[^], N. Assanta*, I. Spadoni*, P. Festa*[^]
 O.U.Pediatric Cardiology, [^]MRI Lab and [°]IFC- CNR, Fondazione Gabriele Monasterio, Massa Pisa.
- 10.45 – 10.50 **P58** Feasibility of a novel approach for 3D mitral valve quantification from CMR images
 Maffessanti F1, Stevanella M1, Votta E1, Lombardi M2, Parodi O2, De Marchi D2, Conti CA1, Redaelli A1, Caiani EG1
 1 Bioengineering Dpt, Politecnico di Milano, Milano, Italy 2 CNR Clinical Physiology Institute, Pisa, Italy
- 10:50 – 10:55 **P59** Grading of aortic regurgitation: impact of additional measurements and phantom correction
 R Wassmuth, F von Knobelsdorff, J Schulz-Menger
 Helios Klinikum and Charite University Medicine Berlin, Germany
- 10:55 – 11:00 **P60** Patterns of left ventricular hypertrophy and mortality in patients with Aortic Stenosis
 1Royal Brompton Hospital London; 2Centre for Cardiovascular Science, University of Edinburgh
 M. Dweck^{1,2}, S. Joshi¹, T. Murigu¹, A. Gulati¹, D. Newby², D. Pennell¹, S. Prasad¹
- 10:30-11:00 Poster Session III/III
 Adult Congenital Heart Disease and Valves – 3**
- Chair: Raad Mohiaddin (London, United Kingdom)**
- 10:30 – 10:35 **P61** Mid-wall fibrosis is an independent predictor of mortality in patients with aortic stenosis
 M. Dweck^{1,2}, S. Joshi¹, T. Murigu¹, F Alpendurado¹, R Mohiaddin¹, D. Newby², D. Pennell¹, S. Prasad¹
 1Royal Brompton Hospital London; 2Centre for Cardiovascular Science, University of Edinburgh
- 10:35 – 10:40 **P62** Predictors of myocardial fibrosis in aortic stenosis evaluation by late-enhanced MRI
 S. Pierard, S. Seldrum, C. De Meester, A. Pasquet, D. Vancraeynest, J.L. Vanoverschelde, B L M. Gerber
 Cliniques St. Luc UCL, Brussels Belgium

- 10:40 – 10:45
P63 Incidence of periprocedural necrosis in different types of cardiac valve surgery assessed by CMR
B L Gerber, C. De Meester, S. Seldrum, S. Pierard, A. Pasquet, J.L. Vanoverschelde
Cliniques St. Luc UCL, Brussels Belgium
- 10:45 – 10:50
P64 Left Ventricular Systolic Dysfunction as Defined by MRI in Isolated Ventricular Non-Compaction
Dellegrottaglie S, Pedrotti P, Pedretti S, Chiariello M, Perrone-Filardi P, Roghi A.
Federico II University of Naples, Italy and Niguarda-Ca' Granda Hospital, Milan, Italy
- 10:50 – 10:55
P65 Role of CMR in cardiovascular assessment of Gaucher disease CMR Unit, Department of Cardiology, Niguarda Ca'Granda Hospital
A.Roghi, P.Pedrotti, A.Milazzo, E.Cassinerio*, M.D.Cappellini*
*Fondazione Policlinico IRCCS, University of Milan
- 10:55 – 11:00
P66 Diastolic Filling Patterns of the Left Ventricle Using Volume Tracking in Flow from 4D Phase Contrast MRI
Johannes Töger, Marcus Carlsson, Håkan Arheden, Gustaf Söderlind and Einar Heiberg
Department of Clinical Physiology, Lund University and Region of Scania University Hospital, Lund, Sweden
- 11:00-1200 Session XV – Current controversies in CMR from the Pathologist's and Clinician's Perspective**
- Chair: Andrew Arai (Bethesda, USA)**
Frank Rademakers (Leuven, Belgium)
- 11:00 – 11:15
76 LV non-compaction: are we over- or under-reporting LVNC?
Steffen Petersen (London, United Kingdom)
- 11:15 – 11:30
77 LGE in the RV – does it exist and how is it best imaged
Martina Perazzolo (Padua, Italy)
Matthias Friedrich (Calgary, Canada)
- 12:00 – 13:00 Session XVI – Coronary Artery Disease – The Expanding Role of CMR**

- Chair: Massimo Lombardi (Pisa, Italy)**
Herbert Frank (Tulln, Austria)
- 12:00 – 12:15 Epidemiology of coronary artery disease and consequences
for management
78 Frank Rademakers (Leuven, Belgium)
- 12:15 – 12:25 Characterization of myocardium – improving perfusion and
viability CMR
79 Sven Plein (Leeds, United Kingdom)
- 12:25 – 12:40 Patients with suspected CAD: how and when to integrate
CMR into management
80 Jürg Schwitter (Lausanne, Switzerland)
- 12:40 – 12:55 Management of acute chest pain: to use CMR – CT –
invasive – or all of them?
81 Andrew Arai (Bethesda, USA)
- 13:00 – 14:00 Best Abstract Award & Closing Remarks**
Massimo Lombardi, Chair EuroCMR 2010
- 14 :30-16 :30 CMR Examination**
Oliver Bruder / Steffen Petersen / Sven Plein