5th Advanced International Masterclass

AimRADIAL 2016
Coronary & Vascular

Budapest (HU) September 22-23
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5th Advanced International Masterclass

Aim RADIAL 2016
Coronary & Vascular

Budapest (HU) September 22-23

21 September 2016, Budapest (HU)
FFR Workshop
presented in opening of AimRADIAL2016
Dear colleagues and friends

On behalf of the organizing committee and conference staff we would like to welcome all of you to the fifth Advanced International Masterclass on Transradial Approach (AIM-RADIAL 2016). This year the meeting is being run jointly with the Hungarian Society of Cardiology. The previous four meetings have been held in Quebec City, New York, Chicago and Liverpool respectively, and this year’s meeting in Budapest is the second AIM-RADIAL event to be held in Europe. Research and technical evolution is occurring rapidly in relation to the transradial approach and we hope the AIM-RADIAL 2016 programme will provide a stimulating and interesting update on education and research in this important area of interventional practice in coronary and peripheral vascular diseases. This year, in the continuing quest for optimized patient management, we are very excited to add a 1-day state of the art fractional flow reserve (FFR) workshop. Beyond lectures, abstract and clinical cases presentation, both events will include live cases from various parts of the globe.

The challenges, issues and obstacles faced by radial operators are different in each country. There has not been universal acceptance of the strong existing database resulting in low rates of radial access in some countries. We believe that building an international community spirit and awareness amongst radial operators through initiatives like AIM-RADIAL will be of great benefit to cardiologists and patients. Establishing a successful transradial programme is heavily dependent on a multidisciplinary team of physicians, nurses, catheter laboratory technicians and other health professionals, and we welcome these allied professions to the AIM-RADIAL meeting.

Many of the challenges faced by transradial operators have been solved by industry driven technical advances. AIM-RADIAL 2016 will give all delegates the opportunity to gather information relating to technical and equipment developments from major industry partners who will be attending and exhibiting at the meeting. We would also like to record our thanks to industry who have provided the sponsorship that has made this meeting possible. AIM-RADIAL 2016 is a logistically complex meeting, and we would also like to record our thanks for all the hard work put in by the organizing teams in Budapest at Mis & Bos and in Quebec City.

We hope that you will enjoy the meetings and your stay in the fantastic city of Budapest (with all its enormous cultural diversity, historical international links with the world).
LIST OF FACULTY

FROM HUNGARY
Daniel Aradi (HU)
David Becker (HU)
Istvan F Edes (HU)
Zoltan Jambrik (HU)
Andras Katona (HU)
Andras Komocsi (HU)
Bela Merkely (HU)
Balazs Nemes (HU)
Zsolt Piroth (HU)
Zoltan Ruzsa (HU)
Peter Sotonyi (HU)
Imre Ungi (HU)

INTERNATIONAL FACULTY
Tigani Abdelaal (UK)
Victor Alfaro (Costa Rica)
Amit Amin (USA)
Adel Aminian (Belgium)
Avtandil Babunashvili (Russia)
Rodrigo Bagur (Canada)
Alberto Barria Perez (Chile)
Stanislaw Bartus (Poland)
Hakim Benamer (France)
Ivo Bernat (Czech Republic)
Olivier F Bertrand (Canada)
Leszek Bryniarski (Poland)
Paul T Campbell (USA)
Piotr Chodor (Poland)
Mauricio G Cohen (USA)
Bernardo Cortese (Italy)
Nick Cruden (UK)
Vincent Dangoisse (Belgium)
Surya Dharma (Indonesia)
Darius Dudek (Poland)
Omid Hashemi Fard (Iran)
Benjamin Faurie (France)
Douglas Fraser (UK)
Guosheng Fu (China)
Robert Gil (Poland)
Ian C Gilchrist (USA)
Rajendra K Gokhroo (India)
George Hahalis (Greece)
Yuji Ikari (Japan)
Fumiaki Ikono (USA)
Sanjit S Jolly (Canada)
Sasko Kedev (Macedonia)
Lukasz Koltowski (Poland)
Michael Koutouzis (Greece)
Tak Kwan (USA)
Shahar Lavi (Canada)
Yves Louvard (France)
Mamas Mamas (UK)
Takashi Matsukage (Japan)
David Meerkin (Israel)
Abdul Momen (Bangladesh)
Jacques Monsegu (France)
Piero Montorsi (Italy)
James Nolan (UK)
Goran Olivecrona (Sweden)
Andrea Pacchioni (Italy)
Samir B Pancholy (USA)
Sunil V Rao (USA)
Sudhir Rathore (UK)
Stefano Rigattieri (Italy)
Jonathan Roberts (USA)
Farshad Roghani (Iran)
Enrico Romagnoli (Italy)
Shigeru Saito (Japan)
Neus Salvatella (Spain)
Kintur Sanghvi (USA)
Alessandro Scialbasi (Italy)
Pinak Shah (USA)
Bernadette Speiser (USA)
Khalid Tammam (Saudi Arabia)
Helena Tizon Marcos (Spain)
Carlo Trani (Italy)
Mir Jamal Uddin (Bangladesh)
Maarten Van Leeuwen (Netherlands)
Pablo Vazquez (Uruguay)
Mladen Vidovich (USA)
Jesus EVillano (Philippines)
Yuejin Yang (China)
Fuminobu Yoshimachi (Japan)
Antonios Ziakas (Greece)
FFR FACULTY

› Colin Berry, MD, PhD Scotland (UK)
Professor of Cardiology and Imaging (Institute of Cardiovascular and Medical Sciences)

BHF Glasgow Cardiovascular Research Centre, Institute of Cardiovascular and Medical Sciences, University of Glasgow, Glasgow, Scotland (UK).

Prof Berry is a Scottish Senior Fellow and holds a Chair in Cardiology in the University of Glasgow. He is an Honorary Consultant Cardiologist at the Golden Jubilee National Hospital and Western Infirmary, Glasgow. His subspecialty interests are Interventional Cardiology and Imaging.

› Olivier F Bertrand, MD, PhD Canada
Tenured Associate-Professor of Medicine at Laval University, Quebec City (Canada) and Adjunct-Professor at the Dept of Mechanical Engineering, McGill University, Montreal (Canada)

Interventional Cardiologist and Clinician-Researcher at Quebec Heart and Lung Institute, Quebec City.

His current research interests include the study of clinical benefits of transradial approach and optimal antithrombotic strategies for percutaneous coronary interventions and the impact of coronary flow reserve on clinical outcomes in interventional cardiology. He holds the International Chair on Interventional Cardiology and Transradial Approach.

› Nick Curzen BM (Hons), PhD, FRCP England (UK)
Professor of Interventional Cardiology at University of Southampton, Faculty of Medicine, Southampton, England (UK) Consultant Cardiologist specializing in coronary and aortic valve intervention at University Hospital Southampton.

Prof Curzen has researched extensively in the field of coronary physiology and imaging and was Chief Investigator for the original RIPCORD study as well as the FFRCT RIPCORD trial. He is currently leading the randomized RIPCORD 2 trial around the UK.

› Justin E Davies, MBBS MRCP, PhD England (UK)
Professor of Interventional Cardiology at University of Southampton, Faculty of Medicine, Southampton, England (UK) Consultant Cardiologist specializing in coronary and aortic valve intervention at University Hospital Southampton.

Prof Curzen has researched extensively in the field of coronary physiology and imaging and was Chief Investigator for the original RIPCORD study as well as the FFRCT RIPCORD trial. He is currently leading the randomized RIPCORD 2 trial around the UK.
 › Bernard De Bruyne, MD, PhD *Belgium*

Professor in Cardiology, Director of Catheterization Laboratory, Cardiovascular Centre Aalst Cardiovascular-Center, OLV Ziekenhuis, Aalst, Belgium

Prof De Bruyne is Director of the Cardiovascular Center where he is currently in charge of the catheterization and the echocardiography laboratories. His main clinical activities consist in interventional cardiology and echocardiography and his research interests focus on coronary physiology and valvular disease.

 › Ian C. Gilchrist, MD *USA*

Professor of Medicine, Heart & Vascular Institute, The Milton S. Hershey Medical Center, Pennsylvania State University, Hershey (PA, USA)

Has been active in >200 multi-centered clinical trials over the last 25 years. These have included many of the pivotal trials of thrombolytic therapy, antiplatelet and antithrombin agents, and device trials that define standard and future care in interventional cardiology. Beginning with transradial procedures in 1996, he has also worked to optimize the approach including integration of pressure wire technology and coronary flow to the optimization of coronary stenosis assessment.

 › Nils P. Johnson, MD, MS *USA*

Associate Professor of Medicine, Division of Cardiology, Weatherhead PET Imaging Center, McGovern Medical School at UTHealth and Memorial Hermann Hospital, Texas Medical Center, Houston (TX, USA)

Prof Johnson research interest focuses on clinical coronary physiology, from perfusion imaging to intracoronary hemodynamics. This includes deciding when invasive cardiac catheterization, angioplasty, or bypass surgery are necessary by using non-invasive tools like cardiac PET imaging or invasive tools like FFR and CFR.

 › Yoshiaki Kawase, MD *Japan*

Co-Director of Cardiology Division, Gifu Heart Center, Gifu, Japan

Prof Kawase research interests focus on physiology and imaging in cardiology, including coronary flow and FFR measurements.

 › Zsolt Koszegi, MD, PhD *Hungary*

Associate Professor, Institute of Cardiology, University of Debrecen, Head of Invasive Cardiology Laboratory, Szabolcs – Szatmár – Bereg County Hospitals and University Teaching Hospital, Nyíregyháza, Hungary

His current research interest focus on coronary physiology and 3D coronary angiography with fluid dynamic modelling.
Rosaire Mongrain, PhD Canada
Associate Professor; William Dawson Scholar; Dept of Mechanical Engineering, McGill University, Montreal (Canada)
Prof Mongrain research interests focus on bioengineering. His research includes blood flow modeling in circulatory pathologies (stenoses, aneurysms) and the influence of the flow on these diseases, the study of the mechanical properties of vascular tissues, the design, development and evaluation of cardiovascular devices using numerical, experimental and animal models and image processing for medical diagnosis (motion analysis, tissue characterization).

Zsolt Piroth, MD Hungary
Deputy Head of the Adult Cardiology Department of the Hungarian Institute of Cardiology, Budapest (Hungary) and nucleus member of the Working Group of Interventional Cardiology of the Hungarian Society of Cardiology.
His main interest is the clinical application of coronary physiology: FFR before and after coronary intervention, and left main percutaneous coronary intervention (PCI).

Zoltan Ruzsa, MD, PhD Hungary
Assistant Professor at Semmelweis University, Budapest (Hungary), Head of Invasive Cardiology at Bács-Kiskun County Hospital, Teaching Hospital of University of Szeged, Faculty of Medicine, Interventional Cardiologist, Cardiac and Vascular Center, Semmelweis University, Budapest (Hungary)
Prof Ruzsa is interested in the study of non-invasively and invasively measured parameters by pressure wire (peripheral fractional flow reserve) before and after below-the-knee angioplasty.

Sayan Sen, MD, PhD England (UK)
Consultant Cardiologist and Honorary Senior Clinical Lecturer at Imperial College London
Dr Sen is interested in coronary physiology and techniques of stenosis evaluation. His research includes the development and validation of new diagnostic tools such as the instantaneous wave-free ratio (iFR).
SCHEDULE

› FFR WORKSHOP PROGRAM
› CONGRESS PROGRAM
### FFR WORKSHOP PROGRAM

**Wednesday, September 21, 2016**

**SESSION 1 - BASIC PRINCIPLES**
Chairman/Panelists: Olivier Bertrand / Colin Berry, Yoshiaki Kawase, Zoltan Ruzsa

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:50 - 09:00</td>
<td>Welcome and introduction: workshop goals / objectives</td>
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</table>
| 09:00 - 09:20 | Regulation of the coronary blood flow: primer for the interventional cardiologist  
Rosaire Mongrain |
| 09:20 - 09:40 | FFR: practical set-up and common pitfalls                             
Nils Johnson |
| 09:40 - 10:00 | iFr and baseline Pd/Pa: hype or hope?                                 
Sayan Sen |
| 10:00 - 10:15 | How to achieve maximal coronary vasodilatation?                        
Zsolt Piroth |
| 10:15 - 10:30 | Q & A                                                                   |
| 10:30 - 11:00 | Live case from Aalst (Belgium)                                          
Bernard De Bruyne and team |

**SESSION 2 - CLINICAL SCENARIOS**
Chairman/Panelists: Nils Johnson / Rosaire Mongrain, Zsolt Piroth, Sayan Sen

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<tr>
<th>Time</th>
<th>Session</th>
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| 11:15 - 11:30 | FFR assessment: how it affects clinical judgment                        
Nick Curzen |
| 11:30 - 11:45 | Expanded potential of pressure wire use for complex coronary angioplasty  
Yoshiaki Kawase |
| 11:45 - 12:00 | FFR using 4Fr catheters: can slender technique work here?               
Ian Gilchrist |
| 12:00 - 12:30 | Live case from Hammersmith Hospital (UK) - Justin Davies and team       
Lunch - Q&A - Booths |
FFR WORKSHOP PROGRAM

Wednesday, September 21, 2016

SESSION 3 - LESSONS LEARNED FROM CLINICAL TRIALS AND REGISTRIES
Chairman/Panelists: Ian Gilchrist / Olivier Bertrand, Yoshiaki Kawase, Zoltan Ruzsa

13:30 - 13:50 Lessons from FAME trials - Colin Berry
13:50 - 14:10 Lessons from PLATFORM - Nick Curzen
14:10 - 14:30 iFR trials regarding current practice - Sayan Sen
14:30 - 14:50 FAMOUS: FFR in non-STEMI - Colin Berry
14:50 - 15:10 Contrast as an easy vasodilatory agent? - Nils Johnson
15:10 - 15:25 Q & A
15:30 - 16:00 Live case from Semmelweis (Hungary) - Zoltan Ruzsa and team

SESSION 4 - WHAT IS NEXT
Chairman/Panelists: Zsolt Piroth / Nils Johnson, Rosaire Mongrain, Sayan Sen

16:00 - 16:15 FFR-CT: the future is now - Nick Curzen
16:15 - 16:30 Post-PCI FFR: time is coming - Olivier Bertrand
16:30 - 16:45 FFR and peripheral disease - Zoltan Ruzsa
16:45 - 16:00 Calculation of the residual pressure gradient after stent implantation - Zsolt Koszegi
16:00 - 16:30 Q & A, general discussion
18:30 Welcome Reception
PROGRAM MAIN CONFERENCE ROOM

Thursday, September 22, 2016

08:00 Opening & Registration

09:00 - 09:05 Welcome & Introduction
OF Bertrand, Z Ruzsa

09:05 - 09:50 Live Case / Hungary - R Gil & Z Ruzsa (Semmelweis): Left main PCI
Chairman: Y Ikari, J Nolan;
Panelist: V Alfaro, H Benamer, N Salvatella, M Vidovich

09:50 - 11:50 SESSION 1
Chairman: MG Cohen, E Romagnoli;
Panelist: S Dharma, D Fraser, M Koutouzis, P Vazquez

› 09:50 Do we still need Allen or oxymetry prior to radial approach?
IC Gilchrist

› 10:05 Access site-related outcomes: relationship with operator and center volume
J Nolan

› 10:20 Radialists perform better femoral PCI
M Mamas

› 10:35 Is femoral proficiency lost when radial access thrives?
S Bartus

› 10:50 Coated slender vs un-coated traditional sheath – The ACCESS-I study
B Sindberg

› 11:05 Retrospective analysis of conventional and radial TIG catheters
M Vorpahl

› 11:20 Ulnar artery interventions non-inferior to radial approach (AJULAR)
RK Gokhroo

› 11:35 Discussion

11:50 - 12:50 Lunch Break, e-Posters, e-Clinical Cases & Booths
Thursday, September 22, 2016

12:50 - 13:35  Live Case / Hungary - A Katona & I Ungi (Szeged):
Complex CTO procedure
Chairman: S Kedev, Y Louvard;
Panelist: D Aradi, R Bagur, D Becker, RK Gokhroo

13:35 - 15:20  SESSION 2
Chairman: A Aminian, M Mamas;
Panelist: L Bryniarski, S Lavi, A Sciahsbasi, F Yoshimachi

- 13:35  Impact of high vs low heparin dose on radial artery occlusion
  G Hahalis
- 13:50  Radial catheterization on patients on low- vs high-heparin dose
  S Gorgulu
- 14:05  Acute radial artery occlusion: best practices to reduce it, SB Pancholy
- 14:20  Novel technique of retrograde recanalization of chronic RAO
  A Babunashvili
- 14:35  Post-procedural radial artery patency and occlusion detection
  I Bernat
- 14:50  Association between activated clotting time and time to hemostasis and patency
  MH Poulsen
- 15:05  Discussion


15:50 - 17:10  SESSION 3
Chairman: IC Gilchrist, K Sanghvi;  Panelist: V Dangoisse, OH Fard, T Matsukage, J Nolan

- 15:50  Overview of tips and tricks to guarantee success with radial approach
  MG Cohen
- 16:10  Clinical case 19: Right hand ischemia
  V Alfaro
- 16:25  Clinical case 23: Right forearm pain, and the culprit: transradial angiography
  A Lux
- 16:40  Clinical case 13: Dealing with lost stents
  A Katona
- 16:55  Discussion
Thursday, September 22, 2016

17:10 - 18:30  Late-Breaking Clinical Trials
   Chairman: G Hahalis, SB Pancholy; Panelist: P Chodor, A Pacchioni, S Rathore, B Speiser
   › 17:10  Manual vs mechanical compression of the radial artery (MEMORY)
          A Ziakas
   › 17:25  Postcath radial arterial clamp time In the cath lab (PRACTICAL)
          S Lavi
   › 17:40  The RADIANT Trial,
          A Sciahbasi
   › 17:55  Radial access: until when shall we compress? A pilot study
          S Alonso
   › 18:10  Discussion

18:30  End of Day 1

19:30  Gala Dinner
PROGRAM  MAIN CONFERENCE ROOM

Friday, September 23, 2016

07:45 - 08:30  Live Case / China - G Fu (Hangzhou): Complex PCI
Chairman:  O Bertrand, T Kwan;    Panelist:  R Gil, G Olivecrona, Z Piroth, J Roberts

08:30 - 10:45  SESSION 4
Chairman:  H Benamer, M Vidovich;    Panelist:  A Babunashvili, S Rigattieri, H Tizon-Marcos, JE Villano
  › 08:30  Transradial access for IVUS guided left main PCI
         R Gil
  › 08:50  Transradial access for complex coronary CTO procedures
         L Bryniarski
  › 09:10  Brachial IABP to support complex transradial PCI
         Y Ikari
  › 09:30  Benefits of radial approach in STEMI. Data from ORPKI registry
         Z Siudak
  › 09:45  Access site choice and risk adverse neurological events
         CS Kwok
  › 10:00  Clinical case 17: High risk transradial PCI with Impella assist device support
         E Leon
  › 10:15  Clinical case 15: CTO intervention via ipsilateral epicardial collateral and 6 Fr guide,
         T Schäufele
  › 10:30  Discussion

10:45 - 11:30  Live Case / France - B Faurie & J Monsegu (Grenoble): Embolization of
               mammary artery side branch and CTO procedure
Chairman:  Y Ikari, K Tammam;    Panelist:  E Abdelaal, F Ikeno, A Komocsi, C Trani

11:30 - 12:55  SESSION 5
Chairman:  I Bernat, J Roberts;    Panelist:  A Aminian, G Hahalis, M van Leeuwen, S Rathore
  › 11:30  Upper extremity dysfunction after radial access (interim results of
         ARCUS trial)
         S IJsselmuiden
  › 11:45  A novel test for radial artery occlusion with the laser Doppler scan
         A Polimeni
  › 12:00  Ultrasound evaluation of radial artery
         R Diletti
### PROGRAM

**MAIN CONFERENCE ROOM**

**Friday, September 23, 2016**

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<tr>
<th>Time</th>
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<tr>
<td>12:15</td>
<td>Double 5Fr guiding catheter for left main PCI</td>
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<td>V Dangoisse</td>
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<td>12:30</td>
<td>Endothelial dysfunction and radial artery spasm: ACRA-Spasm study</td>
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<td>D van der Heijden</td>
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<td>12:45</td>
<td>Discussion</td>
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<td>13:55 - 14:40</td>
<td>Live Case / USA - PT Campbell (Concord, NC): Robotic PCI procedure</td>
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<td>Chairman: A Amin, I Ungi</td>
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<td>Panelist: IF Edes, T Matsukage, P Montorsi, J Nolan</td>
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<td>14:40 - 16:20</td>
<td>SESSION 6</td>
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<td>Chairman: IC Gilchrist, S Kedev;</td>
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<td>Panelist: MG Cohen, Y Louvard, F Roghani, A Sciahbasi</td>
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<td>14:40</td>
<td>Best practice in same-day discharge</td>
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<td>I Bernat</td>
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<td>14:55</td>
<td>Left vs right radial access</td>
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<td>I Jovin</td>
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<td>15:10</td>
<td>Costs of transradial percutaneous coronary intervention</td>
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<td>15:25</td>
<td>Virtual 3Fr PCI: the V3 registry</td>
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<td>F Yoshimachi</td>
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<td>15:40</td>
<td>Comparison of standard versus radial artery–specific catheters</td>
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<td>S Goel</td>
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<td>15:55</td>
<td>Radial approach for structural intervention</td>
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<td>K Sanghvi</td>
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<td>16:10</td>
<td>Discussion</td>
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<td>16:20 - 16:50</td>
<td>Break, e-Posters, e-Clinical Cases &amp; Booths</td>
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<tr>
<td>16:50 - 17:30</td>
<td>Late-Breaking Clinical Trials</td>
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<td>Chairman: O Bertrand, Z Ruzsa;</td>
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<td></td>
<td>Panelist: R Bagur, I Bernat, Z Jambrik, S Lavi</td>
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<tr>
<td>16:50</td>
<td>The RAP &amp; BEAT Trial</td>
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<td>A Aminian</td>
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<tr>
<td>17:05</td>
<td>Prevention of RAO: prophylactic hyperperfusion evaluation trial (PROPHETII)</td>
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<td>SB Pancholy</td>
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<td>17:20</td>
<td>Discussion</td>
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<td>17:30</td>
<td><strong>End of Day 2 / Closure</strong></td>
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SCHEDULE

› TECHNICAL AND ENDOVASCULAR SESSIONS
Thursday, September 22, 2016

13:00 - 15:30  TECHNICAL ASPECTS (PART I)
Chairman: O Bertrand, P Chodor;
Panelist: All session speakers
› 13:00  How to prepare the patient
   B Speiser
› 13:15  Puncture: radial and ulnar
   T Matsukage
› 13:30  Ultrasound based puncture
   J Roberts
› 13:55  Benefit of pre-procedural radial angiography in STEMI patients
   B Zafirovska
› 14:10  Discussion
› 14:25  Select diagnostic catheter
   M Vidovich
› 14:40  Select guiding catheter
   MG Cohen
› 14:55  How to canulate the LIMA from the right
   R Bagur
› 15:10  Right heart catheterization by radial
   IC Gilchrist
› 15:25  Discussion

15:30 - 16:00  Break, e-Posters & Booths

16:00 - 16:55  GROUP SESSION WITH PERIPHERAL LIVE CASE
Chairman: A Babunashvili, Z Ruzsa;
Panel: -
› 16:00  Live Case / Hungary: Carotid artery stenting
   S Kedev & B Nemes (Semmelweis)
› 16:45  Discussion

16:55 - 18:10  BIODESIGN SESSION
Chairman: O Bertrand, K Sanghvi;
Panel: -
› 16:55  Biodesign in 2016, US and Japan perspective
   F Ikeno
› 17:10  Radial pigtail
   M Vidovich
› 17:25  Radial artery hemostatic device
   SB Pancholy
› 17:40  Radial artery puncture dedicated needle
   V Dangoisse
› 17:55  Discussion
08:30 - 13:10  ENDOVASCULAR
Chairman:  T Kwan, C Trani; Panel:  TBD
> 08:30  Transradial access for femoro-popliteal interventions - Z Ruzsa
> 08:45  Learning curve of the transradial approach of percutaneous carotid intervention - EM Vegh
> 09:00  Combined dual radial and pedal approach for CTOs of superficial femoral arteries - A Patel
> 09:15  Radial access for aorto-iliac and femoro-popliteal lesion interventions - A Roy / Y Louvard
> 09:30  Discussion
> 09:40  Live Case / Hungary: Left gastric artery embolization - B Nemes & Z Ruzsa (Semmelweis)
  Chairman:  A Babunashvili, B Cortese; Panel:  TBD

ENDOVASCULAR
Chairman:  K Sanghvi, P Sotonyi; Panel:  TBD
> 10:25  Transradial access to treat severe obesity with gastric artery embolisation - Z Ruzsa
> 10:40  Clinical case 1: Transradial prostate artery embolization for treatment of BPH - A Noor
> 10:55  Use of radial access for carotid interventions with protection device - P Montorsi
> 11:10  Radial artery for carotid stenting - S Kedev
> 11:30  Radial artery for iliac/SFA - C Trani
> 11:50  Perspective from the interventional radiologist - B Nemes
> 12:10  Transpedal approach for peripheral intervention - T Kwan
> 12:30  Radial artery for subclavian intervention - O Bertrand
> 12:50  Discussion

12:30 - 13:20  Lunch Break, e-Posters, e-Clinical Cases & Booths

14:00 - 15:45  ENDOVASCULAR (PART II)
Chairman:  Y Louvard, Z Ruzsa;
Panelist:  A Babunashvili, R Bagur, O Bertrand, R Gil, S Kedev, T Kwan, P Montorsi, B Nemes, J Roberts, E Romagnoli, K Sanghvi, P Sotonyi, C Trani
> 14:00  Live Case / Hungary: Transpedal BTK chronic total occlusion - S Bartus & T Kwan (Semmelweis)
> 14:45  Discussion
> 15:00  The great debate: what do we need to extend radial for peripheral, All
ABSTRACTS

LEARNING CURVE & RADIAL APPROACH

Causes of Failed Transradial Approach - Our Experience
Patrk J, Zekanovic D.
Zadar General Hospital, Zadar, Croatia

Radial access: 13 years experience treating acute myocardial infarction
Centro Cardiológico Americano, Sanatorio Americano, Montevideo, Uruguay

Learning curve of the transradial approach of percutaneous carotid intervention
Vegh EM, Nemes B, Teleki B, Merkely B, Huttl K, Ruzsa Z.
Budapest, Hungary

Nine-Year Experience in Transradial Approach for Coronary Procedures at Zadar General Hospital
Zekanovic D, Patrk J, Susak Z, Anic A, Bakotic Z, Buksa B, Bistirlic M.
Zadar General Hospital, Cardiology Department, Zadar, Croatia

HEMOSTASIS, RADIAL INJURY OR OCCLUSION

Comparison of a New Slender 6 French Sheath with a Standard 5 French Sheath for Transradial Coronary Angiography and Intervention: A Randomized Multicenter Trial, the RAP and BEAT (Radial Artery Patency and Bleeding, Efficacy, Adverse evenT) Trial
1 Centre Hospitalier Universitaire Charleroi, Charleroi, Belgium

Radial Access: Until When Shall We Compress? Pilot Study
Centro Cardiológico Americano, Sanatorio Americano, Montevideo, Uruguay

Post-procedural radial artery patency and occlusion detection - comparison of reverse Barbeau test and duplex ultrasound
Bernat I, Jirous S, Rokyta R.
University Hospital and Faculty of Medicine, Pilsen, Czech Republic
Randomized comparison of Terumo coated slender versus un-coated traditional sheath during radial angiography or angioplasty – The ACCESS-I study
Aarhus University Hospital Skejby, Aarhus, Region Midtjylland, Denmark

Association between activated clotting time and time to hemostasis and patency
Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, Aarhus N, Denmark

Manual vErsus Mechanical cOmpression of the Radial arterY after transradial coronary angiography - the MEMORY study
Ziakas A1, Petroglou D1, Hahalis G2, Tsigkas G2, Datsios A1, Hamilos M1, Koutouzis M1, Karvounis H1.
1Aristotle University of Thessaloniki, AHEPA University Hospital, Thessaloniki, Greece; 2Patras University Hospital, Patras, Greece; 3Veroia General Hospital, Veroia, Greece; 4Heraklion University Hospital, Crete, Greece; 5Hellenic Red Cross Hospital, Athens, Greece.

TECHNICAL ASPECTS

Alternative Route for Radial Access in Case of Unstraightenable Loop of the Radial Artery
Tar B, Koszegi Zs
Teaching Hospital, Nyíregyháza, Hungary

Comparison of Operator Radiation Dose in Radial Approach Using Radboard & Pelvic Lead Shields with Femoral Approach in Coronary Procedures
Khaleghifard A, Tarighatnia A, Farajollahi AR, Mohammad Alian AH, Ghojazade M.
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Effect of Pelvic and Radial Lead Shields on Operator Radiation Exposure in Trans-Radial Coronary Procedures
Khaleghifard A, Tarighatnia A, Farajollahi AR, Mohammad Alian AH, Ghojazade M.
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Comparison of Operator Radiation Dose from Coronary Procedures in Radial Approach using Pelvic & Radial Shields with Femoral Approach using Pelvic Shield
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Size of radial artery in local population from Mexico
Alcántara MA, Gómez AP, Núñez VF, Fernández E, López RJ, Fuentes EJ, Morales N.
1ISSSTE, CMN 20 de Noviembre, Mexico City, Mexico; 2ISSSTE, Hospital General “Tacuba”, Mexico City, Mexico; 3ISSSTE, Hospital Regional “Lic. Adolfo López Mateos”, Mexico City, Mexico

COMPLEX PCI BY RADIAL APPROACH
First Prospective Multicenter Experience with the 7 French Glidesheath Slender for Complex Transradial Coronary Interventions
1Centre Hospitalier Universitaire de Charleroi, Charleroi, Belgium

NON-CORONARY INTERVENTION
Safety and Efficacy of Radial Artery Access for Aorto-Iliac and Femoro-Popliteal Lesion interventions
Institut Cardiovasculaire Paris Sud, Massy, France

Safety and Feasibility of Novel Endovascular Techniques: Combined Dual Access Radial and Pedal Approach for Chronic Total Occlusions of Superficial Femoral Arteries
Patel A, Puma JA, Parikh R, Kwan TW.
Mount Sinai Beth Israel Medical Center, New York, NY, USA; Chinatown Cardiology, P.C., New York, USA

Transradial access for femoro-popliteal interventions
Ruzsa Z, Nemes B, Bellavics R, Végh E, Hüttl A, Hüttl K, Merkely B.
Semmelweis University, Cardiac and Vascular Center, Budapest, Hungary

Transradial access to treat severe obesity with gastric artery embolisation
Ruzsa Z, Alfaro V, Nemes B, Végh E, Hüttl A, Hüttl K, Merkely B.
Semmelweis University, Heart and Vascular Center, Budapest, Hungary
RADIAL APPROACH & CONTROVERSIES

Benefits in Bleeding Rates and Periprocedural Mortality of Radial Approach in ST-Segment Elevation Myocardial Infarction. Propensity Score Analysis of Data from ORPKI Polish National Registry
Siudak Z¹, Tokarek T¹, Wysocki T², Sawina A³, Legutko J¹, Zmudka K¹, Dudek D¹.
¹Institute of Cardiology, Jagiellonian University Medical College, Kraków, Poland; ²Dept of Cardiology, Intercard, Pinczów, Poland; ³Institute of Cardiology, Jagiellonian University, Medical College, Kraków, Poland

Access Site Choice for Cardiac Catheterization and Risk Adverse Neurological Events: a Systematic Review and Meta-Analysis
Keele University / Royal Stoke University Hospital / Keele Cardiovascular Research Group, Institutes of Science and Technology in Medicine and Primary Care and Health Sciences, Keele University, Guy Hilton Research Centre, Stoke-on-Trent, Staffordshire, UK

The Impact of Door-to-Balloon Time Less than 30 min on the Prognosis of the Patients with STEMI who Underwent Transradial Coronary Intervention
Yamada T, Takahashi A, Shibutani H, Hashimoto S, Mizuguchi Y, Taniguchi N, Nakajima S, Hata T.
Sakurakai Takahashi Hospital, Kobe, Hyogo, Japan

Operator Radiation Dose During Percutaneous Coronary Procedures: Preliminary Data of the RADIANT Study
Interventional Cardiology - Sandro Pertini Hospital - ASL RM2, Rome, Lazio, Italy

Endothelial Dysfunction and the Occurrence of Radial Artery Spasm During Transradial Coronary Procedures: the ACRA-Spasm Study
Van der Heijden DJ, van Leeuwen MAH, van Royen N.
VU Medical Center, Amsterdam, the Netherlands

Radial Versus Femoral Approach for Percutaneous Coronary Intervention - Data from the CENTURY II Study
Campelo-Parada F, Carrié D.
Rangueil University Hospital, Toulouse, France
ABSTRACTS

Clinical and Financial Benefits of Transradial Angioplasty (Percutaneous Coronary Intervention; PCI) Compared with Transfemoral PCI for the Treatment of Coronary Artery Stenosis: Preliminary UK Findings
Livings C, Verbeek I, Crowe L.
Terumo Europe N.V, Leuven, Belgium

The Rationale and Design Upper Extremity Function After Transradial Percutaneous Intervention
Holtzer CAJ and ARCUS investigators group
Dept. of Plastic, Reconstructive and Hand surgery, Albert Schweitzer Hospital, Dordrecht, The Netherlands

ONGOING CLINICAL TRIALS

Radial versus femoral access in contemporary real-life PCI practices – Data from e-Ultimaster registry
Polad J
Jeroen Bosch Ziekenhuis, s-Hertogenbosch, The Netherlands
Causes of Failed Transradial Approach - Our Experience  
Patrk J, Zekanovic D.  
Zadar General Hospital, Zadar, Croatia

Radial access: 13 years experience treating acute myocardial infarction  
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E-ABSTRACTS SESSIONS

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FRIDAY, SEPTEMBER 23 – AM
Effect of Standard vs Low Heparin Dose on Vascular Complications Following Transradial Coronary Angiography: Randomized Controlled Clinical Trial
Roghani F, Shirani B, Hashemi Fard O.
Isfahan University of Medical Sciences, Isfahan, Iran

Clinical and Procedural Outcomes of 5-Fr vs 6-Fr Sheaths in Transradial Coronary Interventions
Magna Graecia University (AP, FP, SDR, SS, DT, CS, AM, CI) and URT-CNR, Consiglio Nazionale delle Ricerche, Catanzaro, Italy (CI)

The Rationale and Design Upper Extremity Function After Transradial Percutaneous Intervention
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Livings C, Verbeek I, Crowe L.
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E-CLINICAL CASES SESSIONS

E-Clinical cases have been scheduled for an oral presentation during moderated E-Clinical Cases Sessions

THURSDAY, SEPTEMBER 22 – AM

28 Intervention of left main occlusion and complex trifurcation
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10 Challenging case of a left main equivalent
Shah B, Amoroso N.

5 Interesting bifurcation challenge
Tummalapalli KV.

7 STEMI with simultaneous double acute occlusion
Tizón-Marcos H.

24 NSTEMI with three vessel disease - Treat the culprit first?
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3 PCI in ACS
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THURSDAY, SEPTEMBER 22 – PM

6 Complex double bifurcation PPCI for STEMI and cardiogenic shock
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12 Complex left main culotte bifurcation PCI by using modified highway technique through radial approach
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Terumo Europe N.V., Leuven, Belgium
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1 Transradial prostate artery embolization for treatment of BPH
Noor A, Fischman AM.
Icahn School of Medicine at Mount Sinai Hospital, New York City, NY, USA.

13 Dealing with lost stents
Katona A.
University of Szeged, Invasive Cardiology Dept., Szeged, Hungary.

15 Successful transradial CTO revascularisation via an ipsilateral epicardial collateral using a single 6 Fr guide
Schäufele TG, Storm KA, Becker A, Sechtem U.
Robert-Bosch-Krankenhaus, Stuttgart, Germany.

17 High risk transradial PCI with Impella assist device support. Optimization of the vascular access in the complex coronary intervention
Oteo JF, Goicolea J, Touchard A, Fernandez JA, Leon E.
Puerta de Hierro University Hospital, Majadahonda, Madrid, Spain.

19 Right hand ischemia
Alfaro Obando VJ, Ruzsa Z.
San Juan de Dios Hospital, San Jose, Costa Rica.

23 Right forearm pain, and the culprit: transradial angiography
Lux A, Ruzsa Z.
Semmelweis University Heart and Vascular Center, Budapest, Hungary.
COMPLETE LIST OF CLINICAL CASES

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National Heart Foundation Hospital & Research Institute, Dhaka, Bangladesh.

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*Veterans Affairs New York Harbor Healthcare System, NYU School of Medicine, New York, NY, USA.*

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*Veterans Affairs New York Harbor Healthcare System, Manhattan Campus, NYU School of Medicine, New York, NY, USA.*

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*Palo Alto Veteran Health Care System, Palo Alto, CA, USA, Temple Texas Veteran’s Hospital, Temple, TX, USA.*

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Kovacs N.
County Hospital Kecskemét, Hungary.
The event 5th Advanced International Masterclass (AIM)-RADIAL 2016 including its 1st FFR Workshop is accredited by the European Board for Accreditation in Cardiology (EBAC) for 18 hours of External CME credits.
CME ACCREDITATION

EUROPEAN BOARD FOR ACCREDITATION IN CARDIOLOGY

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Each participant should claim only those hours of credit that have actually been spent in the educational activity. EBAC works according to the quality standards of the European Accreditation Council for Continuing Medical Education (EACCME), which is an institution of the European Union of Medical Specialists (UEMS).

1. LEARNING OBJECTIVES

The purpose of AIM-RADIAL 2016 is to educate interventional cardiologists and radiologists, and catheterization laboratory staff about the radial approach for coronary and non-coronary percutaneous interventions and to encourage widespread adoption of this practice to reduce vascular and bleeding complications among patients undergoing such interventions, increase patient comfort and adapt to healthcare financial constrains.

In addition, the purpose of the workshop dedicated to fractional flow reserve (FFR) measurement and included in the program aims to learn from world experts in FFR and vascular physiology, and share their accumulated experience and knowledge of over more than 2 decades of FFR measurements. Indeed, FFR and physiology in the cathlab require a different mindset to which interventional cardiologists are not necessarily accustomed.

- Review the latest literature, evidences and advances in this field
- Debate on the practice as shown via live cases
- Transfer knowledge for interventional cardiologist and radiologists, and other healthcare providers
- Recognize the feasibility and benefits of the transradial approach as compared to the standard femoral approach
- Identify current challenges to global adoption of transradial approach
- Establish a common nomenclature of complications related to transradial approach
- Relate up-to-date information: lecture and scientific presentations
- Demonstrate techniques of contemporary transradial practice: live cases
- Debate on controversies and applications: roundtable discussions and forums
- Report ongoing state of the art research and applications: poster exhibitions
2. TARGET AUDIENCE
Sessions are intended for interventional and general cardiologists, interventional radiologists, physicians, residents, fellows-in-training and other healthcare professionals (nurses, technologists, etc) at all experience levels.

3. POSSIBLE/DISCLOSED CONFLICTS OF INTEREST
The CME provider is the International Chair on Interventional Cardiology and Transradial Approach (‘ICICTA’). ICICTA is a University Research and Education Chair at Laval University (Québec City, QC, Canada).

ICICTA has no conflicting interests to declare in the organization and development of the meeting agenda. Furthermore, ICICTA has reminded all Faculty and Speakers at the meeting to declare any conflicting interests with their respective duties at the meeting.

4. SOURCE(S) OF COMMERCIAL FUNDING
Contributors to the meeting are listed on: http://aimradial.org/aimradial.org/Contributors.html

5. ANY SATELLITE SYMPOSIA (IF ANY) ARE EXCLUDED FROM EBAC ACCREDITATION

6. THE CME PROVIDER
International Chair on Interventional Cardiology and Transradial Approach

7. THE COURSE DIRECTOR(S)
Dr O.F. Bertrand and Dr Z. Ruzsa
INFORMATION

› CONTRIBUTORS
› GENERAL INFORMATION
› MEETING COORDINATION
GENERAL INFORMATION

REGISTRATION AND INFORMATION DESK
Conference, Events & Meetings Level – Mezzanine Floor

MAIN CONFERENCE ROOM
Ballroom A and B

TECHNICAL AND ENDOVASCULAR SESSIONS
The Technical and Endovascular Parallel Sessions will be held in Tokaj A. These Sessions will start at 13:00 hours on Thursday 22nd and 8:30 hours on Friday 23th September.

E-POSTER / E-CLINICAL SESSIONS
E-Poster / E-Clinical Sessions will take place during the refreshment breaks in the Foyer.

SPEAKER PREPARATION
The Speaker Preparation Area is situated in Villany. A Technician will be available throughout the day assist you. Please ensure any presentations are loaded no later than the refreshment break prior to your presentation.

EXHIBITION AND REFRESHMENTS
The Exhibition and Refreshments will take place in the Foyer and Tokaj B. Please take the time to visit the exhibition stands.

WELCOME RECEPTION (SEPTEMBER 21 – WEDNESDAY)
› 18:30 Bus transfer with sightseeing
  Meeting point: Hilton Budapest City Reception
› 19:30 Welcome Reception at Dominican Courtyard of Hilton Budapest Buda Castle District

GALA DINNER (SEPTEMBER 22 – THURSDAY)
› 19:00 Bus transfer to the Port of Batthyany Square
  Meeting point: Hilton Budapest City Reception
› 19:30 Gala Dinner & Boat Excursion at Europa Boat

Dress Code for the Dinners: Smart business

ACCREDITATION
This Meeting has received EBAC accreditation. Please ensure you sign the appropriate register to be eligible for these points.

CERTIFICATE OF ATTENDANCE
Certificates of Attendance will be emailed following the Meeting.
MEETING COORDINATION

INTERNATIONAL ORGANIZER
Olivier F. Bertrand, MD PhD
Quebec (QC), Canada

LOCAL ORGANIZER
Zoltan Ruzsa, MD PhD
Budapest, Hungary

ORGANIZING COMMITTEE
Olivier F. Bertrand
Olivier Costerousse
Isabelle Florito
Michèle Jadin
Zoltan Ruzsa

LOCAL CONGRESS BUREAU

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Barbara Tihanyi
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www.misandbos.hu
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AimRADIAL 2016
Coronary & Vascular

Budapest (HU) September 22-23