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ANNUAL SCIENTIFIC SESSIONS 2017
22nd WORLD CONGRESS ON
HEART DISEASE

VANCOUVER, BC, CANADA, JULY 14 – 16, 2017

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INTERNATIONAL ACADEMY OF CARDIOLOGY

Affiliated with:
AMERICAN COLLEGE OF CARDIOLOGY, CALIFORNIA CHAPTER
THE AMERICAN SOCIETY FOR PREVENTIVE CARDIOLOGY
INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES

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CME Approved by AMA:
The scientific program of the International Academy of Cardiology, Annual Scientific Sessions 2017, 22nd World Congress on Heart Disease has been reviewed by the American Medical Association and approved for a maximum of 22.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. One credit may be claimed for each hour of participation in approved sessions.

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Dear Friend and Colleague

On behalf of the Organizing Committee, it is my great pleasure to welcome you to Vancouver and to the International Academy of Cardiology, Annual Scientific Sessions 2017, 22nd World Congress on Heart Disease.

The Congress has been designed to provide an innovative and comprehensive overview of the latest research developments in cardiovascular medicine, primarily in the areas of molecular biology, coronary artery disease, heart failure, cardiac arrhythmias and cardiac surgery.

Many distinguished cardiologists and scientists have joined the faculty and will take part in this Congress. Papers will be presented in the form of plenary sessions, symposia and posters and will include superb scientific material that was carefully selected by the Scientific Abstract Review committee from over 500 abstracts submitted for presentation at the meeting. These studies, originating from laboratories in 32 countries, assure that the meeting will be a major scientific event.

We would like to express our thanks to the pharmaceutical and manufacturing industry for their generous support, and to our dedicated staff, colleagues, friends and families for their untiring help, support and advice in planning and arranging this meeting.

We hope that you will enjoy the Congress and that your interaction with your colleagues from many different countries will stimulate a creative exchange of ideas and will be personally rewarding. We also hope and trust that you will enjoy your visit to the very beautiful and exciting city of Vancouver in July 2017.

Yours sincerely,

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INTERNATIONAL ACADEMY OF CARDIOLOGY MEMORIAL AWARDS

The International Academy of Cardiology has established five awards to honor the memory of distinguished colleagues who made a major contribution to Medicine and Cardiology and who were members of the faculty for previous International Academy of Cardiology meetings. As in previous years, the recipients were selected by a very prestigious Awards Committee. The awards for 2017 will be presented at the Opening Ceremony of the Congress.

AWARD RECIPIENTS

The WALTER BLEIFELD MEMORIAL AWARD
for distinguished work in the field of Clinical Research

1995  William Ganz, USA
1996  John B. Barlow, South Africa
1997  Sidney Goldstein, USA
2000  E. Douglas Wigle, Canada
2002  Uri Elkayam, USA
2003  John A. Elefteriades, USA
2005  James H. Chesebro, USA
2007  Clive Rosendorff, USA
2008  Harisios Boudoulas, Greece
2010  Wilbert S. Aronow, USA
2011  Maryl R. Johnson, USA
2012  Anne B. Curtis, USA
2013  Horst Sievert, Germany
2014  Paul A. Heidenreich, USA
2015  Ezra A. Amsterdam, USA
2016  Yochai Birnbaum, USA

The ALBRECHT FLECKENSTEIN MEMORIAL AWARD
for distinguished work in the field of Basic Research

1995  Lionel H. Opie, South Africa
1996  Peter Ganz, USA
1997  Jutta Schaper, Germany
2000  Naranjan S. Dhall, Canada
2002  Hani N. Sabbah, USA
2003  Jawahaw L. Mehta, USA
2005  Francis G. Spinale, USA
2007  Thomas Force, USA
2008  Robert Roberts, Canada
2010  Pawan K. Singal, Canada
2011  Dipak K. Das, USA
2012  Teruhiko Toyo-Oka, Japan
2013  Anne A. Knowlton, USA
2014  Kenneth Maiese, USA
2015  Samuel C. Dudley, USA
2016  Tadeusz Malinski, USA
AWARD RECIPIENTS (Cont.)

The JAN J. KELLERMANN MEMORIAL AWARD
for distinguished work in the field of Cardiovascular Disease Prevention

1995  Nanette Kass Wenger, USA
1996  James S. Forrester, USA
1997  Charles H. Hennekens, USA
2000  Bodh I. Jugdutt, Canada
2002  William T. Abraham, USA
2003  Dean Ornish, USA
2005  Rodolfo Paoletti, Italy
2007  Gerald S. Berenson, USA
2008  Philip R. Liebson, USA
2010  Elizabeth L. Barrett-Connor, USA
2011  Nathan D. Wong, USA
2012  Ulrich Keil, Germany
2013  Stephen L. Kopecky, USA
2014  Howard D. Sesso, USA
2015  Michael E. Farkouh, Canada
2016  Robert S. Ronsenson, USA
AWARD RECIPIENTS (Cont.)

The **HANS-PETER KRAYENBUEHNL MEMORIAL AWARD**
for distinguished work in the field of Research in Cardiac Function

1995  Edmund H. Sonnenblick, USA
1996  Harold J.C. Swan, USA
1997  William H. Gaasch, USA
2000  Ralph Shabetai, USA
2002  Jeffrey S. Borer, USA
2003  Sergio Dalla-Volta, Italy
2005  Michael E. Cain, USA
2007  Lewis C. Becker, USA
2008  Sherif F. Nagueh, USA
2010  Gerd Heusch, Germany
2011  Martin A. Alpert, USA
2012  Louis P. Perrault, Canada
2013  Kailash N. Pandey, USA
2014  Patricia A. Pellikka, USA
2015  John J. Mahmarian, USA
2016  Brian D. Hoit, USA

The **MELVIN L. MARCUS MEMORIAL AWARD**
for distinguished contribution as a Gifted Teacher

1995  Kanu Chatterjee, USA
1996  Shahbudin H. Rahimtoola, USA
1997  Robert A. O’Rourke, USA
2000  A. Jamil Tajik, USA
2002  Daniel S. Berman, USA
2003  David H. Spodick, USA
2005  Shlomo Stern, Israel
2007  George W. Vetrovec, USA
2008  Udho Thadani, USA
2010  Navin C. Nanda, USA
2011  Michael H. Criqui, USA
2012  Barry F. Uretsky, USA
2013  Julius M. Gardin, USA
2014  James D. Marsh, USA
2015  Gregory W. Barsness, USA
2016  Arthur L. Klatsky, USA
INTERNATIONAL ACADEMY OF CARDIOLOGY DISTINGUISHED FELLOWSHIP AWARDS

The International Academy of Cardiology has established Distinguished Fellowship Awards to honor colleagues who have made profound contributions to Cardiovascular Medicine and provided important service to the Academy. The Awards will be presented each year to Faculty Members of the World Congress on Heart Disease at the opening Ceremony of the Congress.

DISTINGUISHED FELLOWSHIP AWARD RECIPIENTS

2005  Jeffrey S. Borer, USA  
2005  Kanu Chatterjee, USA  
2007  James H. Chesebro, USA  
2007  Uri Elkayam, USA  
2007  Francis G. Spinale, USA  
2008  Martin Alpert, USA  
2008  Naranjan S. Dhalla, Canada  
2008  John A. Elefteriades, USA  
2010  Anne B. Curtis, USA  
2011  Lewis C. Becker, USA  
2011  Daniel S. Berman, USA  
2011  Bodh I. Jugdutt, USA  
2012  Robert Roberts, Canada  
2013  Elizabeth Barrett-Connor, USA  
2013  Michael E. Cain, USA  
2013  Michael H. Criqui, USA  
2014  Yzhar Charuzi, USA  
2014  Jawahar L. Mehta, USA  
2014  George W. Vetrovec, USA  
2014  Nathan D. Wong, USA  
2015  S. David Gertz, Israel  
2015  Anne A. Knowlton, USA  
2015  Udho Thadani, USA  
2016  Charles H. Hennekens, USA  
2016  Shahbudin H. Rahimtoola, USA  
2016  Nanette K. Wenger, USA
OPENING LECTURES

Since 2005, the Opening Lecture has been presented as the J.H.C Swan Memorial Lecture.

1989 HEART FAILURE: ETIOLOGICAL MODELS AND THERAPEUTIC IMPLICATIONS
   Edmund H. Sonnenblick, USA

1993 THE MOLECULAR BIOLOGY OF CARDIAC HYPERTROPHY AND FAILURE: THE POTENTIAL FOR MOLECULAR INTERVENTION
   Robert Roberts, USA

1995 CARDIOMYOPATHY OF OVERLOAD: AN UNNATURAL GROWTH RESPONSE IN THE FAILING HEART
   Arnold M. Katz, USA

1996 PREVENTION OF HEART FAILURE - FEASIBLE AND DESIRABLE
   Kanu Chatterjee, USA

1997 MORPHOLOGICAL AND FUNCTIONAL TRANSFORMATION OF THE LEFT VENTRICLE IN HEART FAILURE
   Sidney Goldstein, USA

1998 PREVENTION OF CORONARY DISEASE EVENTS: MYTHS AND OPPORTUNITIES
   Harold J.C. Swan, USA

1999 NEW CONCEPTS CONCERNING THE CELL BIOLOGY OF VULNERABLE PLAQUES
   James S. Forrester, USA

2000 THE CELLULAR AND MOLECULAR BASIS OF HEART FAILURE IN VALVULAR REGURGITATION: RELATION TO CLINICAL OUTCOME
   Jeffrey S. Borer, USA
INTERNATIONAL ACADEMY OF CARDIOLOGY
OPENING LECTURES (Cont.)

2001 MODERN PERSPECTIVES ON DISEASES OF THE THORACIC AORTA
John A. Elefteriades, USA

2002 GENETIC MECHANISMS OF HEART FAILURE
Jeffrey A. Towbin, USA

2003 HEART FAILURE AND THE NEED FOR DEVICE THERAPY
William T. Abraham, USA

2005 INTEGRATION OF CARDIAC MRI, CARDIAC CT SCANNING, AND NUCLEAR CARDIOLOGY IN CLINICAL ASSESSMENT OF PATIENTS WITH KNOWN OR SUSPECTED CHRONIC CAD: WHICH TEST IN WHICH PATIENT?
D.S. Berman, USA

2007 HOW BEST TO IDENTIFY PATIENTS AT RISK FOR SUDDEN CARDIAC DEATH
M.E. Cain, USA

2008 WOMEN AND HEART DISEASE IN THE POST-WHI ERA
E.L. Barrett-Connor, USA

2010 VOODOO DEATH REVISITED: THE MODERN LESSONS OF NEUROCARDIOLOGY
M.A. Samuels, USA

2011 ANGIogenesis IN ATHEROSCLEROSIS: MECHANISM, ROLE AND THERAPEUTIC IMPLICATION
J.L. Mehta, USA

2012 PERIPARTUM CARDIOMYOPATHY: NEW CONCEPTS IN PATHOPHYSIOLOGY AND MANAGEMENT
U. Elkayam, USA

2013 CVD IN WOMEN: A FRESH PERSPECTIVE
E.A. Amsterdam, USA

2014 GENDER DISPARITY IN CORONARY HEART DISEASE: BIAS, BIOLOGY, OR BOTH?
N.K. Wenger, USA

N.D. Wong, USA

2016 THE WAR ON HEART FAILURE
E. Braunwald, USA
ACKNOWLEDGEMENTS

We would like to offer very special thanks to;

Actelion Pharmaceuticals Ltd

for providing an unrestricted educational grant.

The International Academy of Cardiology expresses its sincere thanks to our dedicated staff who helped bring this meeting to reality.

Tomer Aharon
Roland Archer
Dror Ben-Tzvi
Karen H. Burstein
Liron Burstein
Maytal Burstein
Noam Burstein
Cirina Catania
Sergey Fedchin
Rami Gur
Orly Halevy
Oren Hirschenzone
Caroline L. Jia
Rebeca Kimchi
Vicky Klug
Micha Lederman
Shannon J. Leung
Karen Lo
Greg Matthews
Karyn Nahari
Einat Peled
Mike Perchig
Niharika Reddy
Jenna Marie Stelmar
Tuyet T.M. Tran

We are grateful to the Armadillo String Trio for providing the music for the Opening Ceremony.

Our grateful thanks also to Gerald F. Edelstein, partners, associates and staff of Edelstein, Laird & Sobel, P.C., Los Angeles, USA, for their continuing support and invaluable contribution in arranging the legal aspects of the Congress.
GENERAL INFORMATION

VENUE AND HEADQUARTERS HOTEL
The Hyatt Regency Vancouver is the venue and headquarters hotel of the
International Academy of Cardiology
Annual Scientific Sessions 2017
22nd World Congress on Heart Disease

Hotel Address:
The Hyatt Regency Vancouver
1 Discovery Square, 655 Burrard Street
Vancouver, BC V6C 2R7, Canada
Tel: +1 604 683 1234

LANGUAGE
The official language of the Congress is English.

REGISTRATION DESK
The Registration Desk will operate as follows:
Thursday, July 13, 2017 16:00 – 19:00 hours
Friday, July 14, 2017  08:00 – 18:00 hours
Saturday, July 15, 2017 08:00 – 18:00 hours
Sunday, July 16, 2017 08:00 – 13:00 hours

PROJECTION EQUIPMENT
If using a PowerPoint (or any other computer) presentation, please note you need to provide
the presentation on a CD, DVD or memory stick (using the USB port in the computer ) and
load it onto one of the congress’ computers in the Speaker Ready Room, at least 1 hour
before the start of your session. You may bring your own computer as back up but please
check it together with the technician in the session hall where your lecture will take place
during the break prior to your session.

If combining video film with PowerPoint, please make sure to check your presentation in
the session hall where your lecture is taking place during a coffee or lunch break prior to
your session, at least 30 minutes before the start of the session – even after checking it in
the Speaker Ready Room.

Please note that the congress’ computers in the session halls are supplied with Office 2010
(at least) and the native projection ratio of the screens in the Halls will be 4:3.

Please note that VHS video projection, 35 mm’ slide projection and overhead projection
will not be available.

POSTER PRESENTATIONS
Please see the program for the exact date of your poster presentation. Presenters must put up
their posters by 07:50 and ensure that they are removed by the end of the day’s sessions.
PLEASE NOTE: The Congress Organizers are not responsible for posters that have not been
removed / collected by the end of designated sessions. Please make yourself available next
to your poster during coffee and lunch breaks to answer possible questions.
GENERAL INFORMATION (Cont.)

WIFI ACCESS
Free WiFi access will be provided on the Congress floor (3rd floor) during session hours:
Code and Username: IAC17

ATTENDANCE CERTIFICATES
A Certificate of Participation will be provided on registration in your registration pack.

GET-TOGETHER RECEPTION
Registered participants are invited to the Get-Together Reception, which will take place in the Exhibition and Poster Hall of the Congress, in the Hyatt Regency Vancouver on Thursday, July 13, 2017 from 18:00 – 19:00.

FAREWELL DINNER (Optional)
The Farewell Dinner will take place on Saturday, July 15, 2017. Tickets to the dinner are sold-out and no more tickets may be purchased.

AMA CME
We are pleased to announce that the scientific program of the International Academy of Cardiology, Annual Scientific Sessions 2017, 22nd World Congress on Heart Disease has been approved for 22.25 AMA-PRA Category 1 Credits™.

Physicians should claim only the credit commensurate with the extent of their participation in the activity. One credit may be claimed for each hour of participation in approved sessions. Credit claim forms will be available at the registration desk and in your registration packet.

INSURANCE
The Congress Secretariat and Organizers cannot accept liability for personal accidents or loss of, or damage to, private property of participants, students and accompanying persons, either during or indirectly arising from the International Academy of Cardiology, Annual Scientific Sessions 2017, 22nd World Congress on Heart Disease. Participants should make their own arrangements with respect to health and travel insurance.
GENERAL INFORMATION (Cont.)

CONGRESS SECRETARIAT
International Academy of Cardiology
Annual Scientific Sessions 2017
22nd World Congress on Heart Disease
PO Box 17659
Beverly Hills, CA 90209, USA
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E-mail: klimedco@ucla.edu
Website: www.CardiologyOnline.com

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Website: www.CardiologyOnline.com

SOCIAL PROGRAM

Thursday, July 13, 2017

GET –TOGETHER RECEPTION
Registered participants are invited to the Get-Together Reception, which will take place in the Exhibition and Poster Hall on the third floor of the Hyatt Regency Vancouver

Saturday, July 15, 2017

FAREWELL DINNER (Optional)
Tickets to the dinner are sold-out and no more tickets may be purchased.
LIST OF EXHIBITORS

We would like to acknowledge the following companies for contributing their financial support and educational exhibits to this congress:

- **Astra Zeneca**
  1800 Concord Pike
  Wilmington, DE, 19850
  USA

  Astra Zeneca – A global, science-led biopharmaceutical business with innovative medicines used by millions of patients worldwide.

- **VitalAire Canada Inc.**
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  Canada

  Having over 40 years of experience caring for people with respiratory problems in the community, VitalAire is nationally accredited with exemplary standing in BC assuring excellence in respiratory assessment and patient care. VitalAire works collaboratively with healthcare practitioners in the diagnosis and management of Obstructive Sleep Apnea and management of COPD providing effective sleep and oxygen solutions.
OPENING CEREMONY

Chair: John A. Elefteriades, USA

GREETINGS
Asher Kimchi, USA
Founder and Chairman
International Academy of Cardiology

John A. Elefteriades, USA
Chair, Scientific Executive Committee
Chair, Section of Cardiovascular Surgery
International Academy of Cardiology

Jeffrey S. Borer, USA
Member, Scientific Executive Committee
Chair, Section of Valvular Heart Disease
International Academy of Cardiology

Naranjan S. Dhalla, Canada
Member, Scientific Executive Committee
Chair, Section of Molecular Cardiology
International Academy of Cardiology

Garwood Gee, USA
President, California Chapter
American College of Cardiology

Samia Mora, USA
Member, Scientific Executive Committee
Chair, Section of Preventive Cardiology
International Academy of Cardiology

PRESENTATION OF 2017 AWARDS
John A. Elefteriades, USA
Jeffrey S. Borer, USA
FRIDAY, JULY 14, 2017

09:45 – 10:15   Hall A

OL: Opening Lecture
ELEVENTH H.J.C. SWAN MEMORIAL LECTURE

Chair: M.E. Cain, Buffalo, NY, USA

Abstract No.

09:45 INTRODUCTION
M.E. Cain, Buffalo, NY, USA

09:50 IMPROVEMENT IN QUALITY OF CARE FOR ATRIAL FIBRILLATION IN GET WITH THE GUIDELINES – ATRIAL FIBRILLATION (GWTG-AFIB) (Opening Lecture)
University at Buffalo, Buffalo, NY, USA

10:15 COFFEE BREAK, VISIT POSTERS AND EXHIBITION
FRIDAY, JULY 14, 2017

10:45 – 12:45 Hall A

PL01 Plenary Session

STEPS FORWARD IN THE MANAGEMENT OF ADVANCED HEART FAILURE

Chairs: M.R. Johnson, Madison, WI, USA
        N. Nair, Lubbock, TX, USA

Abstract No

10:45 A BRIEF HISTORY OF THE DEVELOPMENT OF MECHANICAL
CIRCULATORY SUPPORT (MCS) (Invited Lecture)
F.A. Arabia
Cedars-Sinai Heart Institute, Los Angeles, CA, USA

11:00 IMPROVING QUALITY OF LIFE IN PATIENTS WITH CHRONIC
HEART FAILURE: OVERCOMING EXERCISE INTOLERANCE (Invited Lecture)
H.N. Sabbah, Henry Ford Hospital, Detroit, MI, USA

11:15 ROLE OF ISOLATED ULTRAFILTRATION IN THE MANAGEMENT OF CHRONIC
REFRACTORY AND ACUTE DECOMPENSATED HEART FAILURE (Invited Lecture)
M.A. Alpert
University of Missouri, Columbia, MO, USA

11:30 TEMPORARY MECHANICAL SUPPORT FOR THE RIGHT VENTRICLE:
PRE-IMPLANT PATIENT SELECTION, DEVICE recipIENT SURVEILLANCE AND
WEANING OF PATIENTS FROM THE SUPPORT SYSTEM (Invited Lecture)
M. Dandel
Deutsches Herzzentrum, Berlin, Germany

11:45 DO NEW STUDIES/DEVICES TIP THE BALANCE TO EARLIER LVAD
IMPLANTATION?
(Invited Lecture)
M.R. Johnson
University of Wisconsin School of Medicine and Public Health, Madison, WI, USA

12:00 VADS IN THE ELDERLY: A VIABLE OPTION (Invited Lecture)
N. Nair
Texas Tech Health Sciences Center, Lubbock, TX, USA

12:15 SODIUM RESTRICTION IN CHRONIC HEART FAILURE: TAKE IT WITH A
PINCH OF SALT? (Invited Lecture)
R. Doukky
Cook County Health and Hospitals System, Chicago, IL, USA

12:30 IMPROVING CARDIAC FUNCTION IN PULMONARY ARTERIAL HYPERTENSION:
IS THERE A ROLE FOR EXERCISE TRAINING? (Invited Lecture)
D. Moreira-Goncalves, M. Santos, R. Ferreira, A.F. Leite-Moreira, J.A. Duarte,
T. Henriques-Coelho
University of Porto, Porto, Portugal

12:45 LUNCH BREAK, VISIT POSTERS AND EXHIBITION
FRIDAY, JULY 14, 2017

10:45 – 13:15 Hall B

PL02 Plenary Session
INSIGHTS FROM MULTIMODALITY CARDIOVASCULAR IMAGING

Chairs: J.J. Mahmarian, Houston, TX, USA
        G-P. Shi, Boston, MA, USA

Abstract No

10:45 OCT-GUIDED VS IVUS-GUIDED PCI (Invited Lecture)
        T. Kubo, T. Akasaka
        Wakayama Medical University, Wakayama, Japan

11:00 THE COMPLEMENTARY ROLE OF ANATOMY AND PHYSIOLOGY IN
        PREDICTING PATIENT OUTCOME: WHERE DO CARDIAC CT AND STRESS
        MYOCARDIAL PERFUSION IMAGING FIT? (Invited Lecture)
        J.J. Mahmarian
        Weill Cornell Medical College, Houston Methodist Hospital, Houston, TX, USA

11:15 EVALUATION OF CORONARY ARTERY DISEASE IN OBESE PATIENTS.
        THE ROLE OF NON-INVASIVE CARDIAC IMAGING (Invited Lecture)
        A. Elhendy
        Marshfield, WI, USA

11:30 Na⁺-H⁺ EXCHANGER 1 DETERMINES ATHEROSCLEROTIC LESION
        ACIDIFICATION AND PROMOTES ATHEROGENESIS (Invited Lecture)
        C-L. Liu, S. Achilefu, M. Nahrendorf, P. Libby, G-P. Shi
        Brigham and Women’s Hospital and Harvard Medical School, Boston, USA

11:45 INTEGRATED APPROACH TO INTRAVASCULAR IMAGING- CURRENT AND
        NOVEL TECHNIQUES (Invited Lecture)
        S.K. Koshy, L.K. George
        University of Tennessee Health Sciences Center, Memphis, TN, USA

12:00 COMPARISON OF COMPUTED TOMOGRAPHY DERIVED FRACTIONAL
        FLOW RESERVE TO INVASIVE FRACTIONAL FLOW RESERVE IN DIAGNOSIS
        OF FUNCTIONAL CORONARY STENOSIS (Invited Lecture)
        R. Sachdeva
        Morehouse School of Medicine, Atlanta, Georgia, USA

12:15 DETERMINATION OF OPTIMAL VIEWING ANGLES FOR X-RAY CORONARY
        ANGIOGRAPHY BASED ON A QUANTITATIVE ANALYSIS OF 3D
        RECONSTRUCTED MODELS (Invited Lecture)
        J.A. Garcia
        Orlando Health -Mid-Florida Cardiology, Orlando, FL, USA
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<th>Time</th>
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<tr>
<td>10:45</td>
<td>FRIDAY, JULY 14, 2017 PL02 Plenary Session INSIGHTS FROM MULTIMODALITY CARDIOVASCULAR IMAGING (cont.)</td>
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<td>12:30</td>
<td>ECHOCARDIOGRAPHIC QUANTITATION OF MITRAL REGURGITATION (Invited Lecture) 016 H.P. Chaliki Mayo Clinic, Scottsdale, AZ, USA</td>
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<td>12:45</td>
<td>FOCUSED READING SESSIONS IMPROVE CORRELATION OF ECHOCARDIOGRAPHIC ASSESSMENT OF RIGHT VENTRICULAR SYSTOLIC FUNCTION WITH RIGHT VENTRICULAR EJECTION FRACTION BY CARDIAC MAGNETIC RESONANCE IMAGING (Invited Lecture) 017 B. Xu, R. Grimm, C. Jellis, M. Desai, D. Phelan, P. Collier, M. Thamilarasan, K. Sato, Z. Popovic Heart and Vascular Institute, Cleveland Clinic, OH, USA</td>
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<td>13:00</td>
<td>EVIDENCE-BASED USE OF HANDHELD ULTRASOUND IN CLINICAL CARDIOLOGY (Invited Lecture) 018 I. Kedan Cedars Sinai Heart Institute, Los Angeles, CA, USA</td>
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<td>LUNCH BREAK, VISIT POSTERS AND EXHIBITION</td>
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FRIDAY, JULY 14, 2017

10:45 – 13:00  Hall C

PL03  Plenary Session
CELLULAR AND MOLECULAR BIOLOGY TARGETS FOR CLINICAL CARE IN CARDIOVASCULAR DISEASE

Chairs:  T. Malinski, Athens, OH, USA
N. Maulik, Farmington, CT, USA

Abstract No

10:45  NEW MOLECULAR TARGETS OF VEGF SIGNALING IN CARDIOVASCULAR DISEASE  (Invited Lecture)
N. Maulik, M. Thirunavukkarasu, V. Coca-Soliz, V. Selvaraju, L. Tapias
University of Connecticut Health Center, Farmington, CT, USA

11:00  IMMUNE CELL ALTERATIONS IN HEART FAILURE  (Invited Lecture)
S.D. Prabhu, University of Alabama at Birmingham, Birmingham, AL, USA

11:15  ANGIOGRAPHIC CONTRAST-INDUCED VASCULAR AND RENAL TOXICITY – A NANOMEDICAL APPROACH  (Invited Lecture)
T. Malinski, H. Dawoud, M. Wagner
Ohio University, Athens, Ohio, USA

11:30  VASCULOPROTECTIVE ROLE OF NATRIURETIC PEPTIDE RECEPTOR C  (Invited Lecture)
M.B. Anand-Srivastava
University of Montreal, Montréal, Québec, Canada

11:45  ROLE OF APELIN/APELIN RECEPTOR AXIS IN HEART DISEASE: THERAPEUTIC ROLE OF APELIN ANALOGUES  (Invited Lecture)
G.Y. Oudit, University of Alberta, Edmonton, Alberta, Canada

12:00  ENDOTHELIN-1 AND CORONARY VASOMOTOR DYSFUNCTION: ROLE OF P38 KINASE AND NADPH OXIDASE  (Invited Lecture)
L. Kuo, T.W. Hein
Texas A&M Health Science Center and Baylor Scott & White Health, Temple, TX, USA

12:15  BETA3-ADRENOCEPTORS, CATECHOLAMINES AND STRESS  (Invited Lecture)
D. Jezova, A. Csanova
Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovakia

12:30  REPETITIVE TRANSIENT ISCHEMIA-INDUCED CARDIAC ANGIOGENESIS IS MEDIATED BY CaMKII ACTIVATION  (Invited Lecture)
Y.G. Wang
Zhongnan Hospital of Wuhan University, Wuhan University, Wuhan, China

12:45  A NOVEL CELL PENETRATING PEPTIDE, CARDIAC TARGETING PEPTIDE APPEARS TO UTILIZE CARDIAC CHANNELS FOR TRANSDUCTION  (Invited Lecture)
M. Zahid, University of Pittsburgh, Pittsburgh, PA, USA

13:00  LUNCH BREAK, VISIT POSTERS AND EXHIBITION

36
PEROXIREDOXIN1 NORMALIZES MACROPHAGE LIPOPHAGIC FLUX IN ATHEROSCLEROSIS
S.J. Jeong, S. Kim, G.T. Oh, Ewha Womans University, Seoul, Republic of Korea

THE PROTECTIVE EFFECTS OF EICOSAPENTAENOIC ACID ARE TRIGGERED UNUSUAL MECHANISMS OF CA2+ RELEASE AND CA2+ INFLUX IN MOUSE CEREBRAL CORTICAL ENDOTHELIAL CELLS
K.L. Wong, C.W. Cheung, Y.M. Leung
China Medical University Hospital, Taichung, Taiwan

NOVEL APPLICATIONS OF CALCIUM CHANNEL BLOCKERS: A NEW INSIGHT TO CARDIAC DRUGS
N. Motayagheni, A. Hyre, M. Mirzazadeh, S. Subashchandrabose, A. Atala
Institute for Regenerative Medicine, Wake Forest, NC, USA

BETA-BLOCKER THERAPY IN COCAINE USERS WITH HEART FAILURE: INSIGHTS FROM AN URBAN ACADEMIC CENTER
Morehouse School of Medicine, Atlanta, Georgia, USA

RELATIONSHIP BETWEEN ABDOMINAL VISCERAL FAT AND BLOOD PRESSURE RESPONSE DURING EXERCISE IN NORMOTENSIVE POPULATION
Korea University Anam Hospital, Seoul, South Korea

MITOCHONDRIAL PROTEIN HYPERACETYLATION IN SKELETAL MUSCLE IS ASSOCIATED WITH EXERCISE INTOLERANCE IN MURINE MODEL OF POST-INFARCT HEART FAILURE
Hokkaido University Graduate School of Medicine, Sapporo, Japan

RELATION OF N-TERMINAL PRO B-TYPE NATRIURETIC PEPTIDE AND LEFT VENTRICULAR DIASTOLIC FUNCTION TO EXERCISE TOLERANCE IN PATIENTS WITH SIGNIFICANT VALVULAR HEART DISEASE AND NORMAL LEFT VENTRICULAR SYSTOLIC FUNCTION
Samsung Medical Center, Seoul, South Korea

A.K Shaikh, F. Rotatori
Richmond University Medical Center Staten Island, NY, USA

GLUCOCORTICOID RECEPTOR REGULATES FNDC5 TRANSCRIPTION
H.K. Kim, Y.J. Jeong, I.S. Song, Y.H. Noh, K.W. Seo, M. Kim, J. Han
Cardiovascular and Metabolic Disease Center, Inje University, Busan, Korea
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**P104  SYSTEMIC AND PULMONARY HYPERTENSION**

10 MITOCHONDRIAL TRNA MUTATION WITH HIGH-SALT STIMULATION ON CARDIAC DAMAGE: UNDERLYING MECHANISM ASSOCIATED WITH CHANGE OF BAX AND VDAC  
General Hospital of People's Liberation Army, Beijing, China

11 POTENTIAL EFFECT OF ALCOHOLIC EXTRACT OF LEAVES OF OCIMUM SANCTUM IN MONOCROTALINE-INDUCED PULMONARY ARTERY HYPERTENSION IN RATS  
All India Institute of Medical Sciences (AIIMS), New Delhi, India

12 SUBLINGUAL VERSUS ORAL CAPTOPRIL FOR DECREASING BLOOD PRESSURE  
**M. Mousavi, N. Razavianzadeh, M. Armin**  
Alborz University of Medical Sciences, Shaheedi Raiaei Hospital, Karaj, Iran

**P105  CHRONIC KIDNEY DISEASE AND CARDIOVASCULAR DISEASE**

13 UNDERLYING RHEUMATIC HEART DISEASE HAD GREATER RISK OF INFECTIVE ENDOCARDITIS IN TAIWAN DIALYSIS PATIENTS  
**M.T. Chou, W.S. Wu, C.C. Chien**  
Ch-i-Mei Medical Center, Tainan, Taiwan

14 MECHANICAL DEVICE FOR THE MANAGEMENT OF CARDIO-RENAL SYNDROME  
**L.W. Miller**  
Leonhardt Ventures, Tampa, FL, USA

15 ASSOCIATION OF CORONARY ARTERY CALCIFICATION AND ARTERIAL MICROCALCIFICATION OF THE VASCULAR ACCESS IN INCIDENTAL HEMODIALYSIS PATIENTS  
**S.Y. Bahk, Y.S. Kim, Y.O. Kim**  
College of Medicine, The Catholic University of Korea, Uijeongbu, Korea

**P106  PEDIATRIC CARDIOLOGY AND CONGENITAL HEART DISEASE**

16 MYOCARDIAL ISCHEMIA ASSOCIATED WITH INTER-ARTERY VARIANTS OF ISOLATED SINGLE CORONARY ARTERY  
**A. Sinha, R. Kumar, J. Shirani**  
Saint Luke's University Health Network, PA, USA

17 REABSORBABLE PINS CAN REINFORCE AN EARLY STERNAL STABILITY AFTER MEDIAN STERNOTOMY IN YOUNG CHILDREN WITH CONGENITAL HEART DISEASE  
**C. Fan, S. Wu, J. Yang**  
The Second Xiangya Hospital, Central South University, Changsha, China
### P106 CARDIOLOGY AND CONGENITAL HEART DISEASE (cont.)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>18</td>
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<th>Title</th>
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<tr>
<td>MYOCARDIAL ISCHEMIA CAUSED BY ISOLATED SINGLE CORONARY ARTERY IN PEDIATRIC POPULATION</td>
<td>A. Sinha, R. Kumar, J. Shirani</td>
<td>Saint Luke’s University Health Network, PA, USA</td>
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<tr>
<td>GERBODE DEFECT IN AN ADULT PATIENT: A VERY RARE ENTITY</td>
<td>R. Malik, S. Hussain, H. Keshmiri, S. Danciu</td>
<td>Advocate Illinois Masonic Medical Center, Chicago, IL, USA</td>
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<tr>
<td>HETEROTAXY SYNDROME IN AN ADULT: A RARE PRESENTATION</td>
<td>A. Sharma, P. Garcia, S. Nadaraj, D. Penigalapati</td>
<td>Saint Peter’s University Hospital/ Rutgers Robertwood Johnson Medical School, New Brunswick, NJ, USA</td>
</tr>
<tr>
<td>EXCEPTIONAL SURVIVAL OF A DOUBLE INLET LEFT VENTRICLE: A RARE CASE</td>
<td>A.L. Schenone, A. Addoumieh, D. Majdalany</td>
<td>Heart and Vascular Institute, Cleveland Clinic, Cleveland, OH, USA</td>
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### P107 MEASUREMENT OF OUTCOME AND QUALITY OF CARDIOVASCULAR CARE

<table>
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<th>Board No.</th>
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<th>Title</th>
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<tbody>
<tr>
<td>PREDICTING HOSPITALIZATION OUTCOMES BASED ON HEART</td>
<td>D. Chang, K. Gu, J. Shin, S. Hasni</td>
<td>Drexel University, Philadelphia, PA, USA</td>
</tr>
<tr>
<td>ORTHOSTATIC VITALS IN THE EVALUATION OF SYNCOPE: KNOWLEDGE, ATTITUDE AND PRACTICE OF HEALTH CARE PROVIDERS (HCPS)</td>
<td>A.C. Atanda, G. Samuel, D. Bekele, Y. Paul, A. Gebreselassie, D. Larbi</td>
<td>Howard University Hospital, Washington DC, USA</td>
</tr>
<tr>
<td>CUSTOMIZED QUALITY IMPROVEMENT FOR ECHOCARDIOGRAPHY</td>
<td>D.R. Chilton, B.L. Hansen, P.L. Rowland, D.E. Langholz</td>
<td>Spectrum Health Frederik Meijer Heart and Vascular Institute, Grand Rapids, MI, USA</td>
</tr>
<tr>
<td>PREVALENCE AND PATTERNS OF CARE IN CARDIAC TROPONIN SUPERUSERS</td>
<td>S.M. Taasan, S.J. Ross, D.E. Winchester</td>
<td>University of Florida, Gainesville, FL, USA</td>
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FRIDAY, JULY 14, 2017

14:00 – 16:00 Hall A

PL04 Plenary Session
CARDIOVASCULAR DISEASE: DIFFERENT STRATEGIES FOR PRIMARY AND SECONDARY PREVENTION

Chairs: U. Thadani, Oklahoma City, OK, USA
N.K. Wenger, Atlanta, GA, USA

14:00 ASPIRIN FOR THE PRIMARY PREVENTION OF CARDIOVASCULAR DISEASE: ADVANCES IN DIAGNOSIS AND TREATMENT (Invited Lecture)
S. Mora
Brigham and Women’s Hospital, Harvard Medical School, Boston, MA, USA

14:15 OPTIMIZING STATIN UTILIZATION AND TREATMENT ADHERENCE AMONG PATIENTS WHO DISCONTINUE STATINS DUE TO ADVERSE MUSCLE EVENTS (Invited Lecture)
R.S. Rosenson
Icahn School of Medicine at Mount Sinai, New York, NY, USA

14:30 GERIATRIC CARDIOLOGY: OCTOGENARIAN PEARLS (Invited Lecture)
N.K. Wenger, Emory University School of Medicine, Atlanta, GA, USA

14:45 MANAGEMENT OF STABLE ANGINA-EUROPEAN, CANADIAN, BRITISH AND AMERICAN SCIENTIFIC SOCIETY GUIDELINES: A CRITICAL APPRAISAL (Invited Lecture)
U. Thadani
OUHSC; Medical Center and VA Medical Center Oklahoma City, OK, USA

15:00 COMBINATION THERAPY OF LIPID DISORDERS. CAN WE REDUCE THE RESIDUAL RISK EFFECTIVELY? (Invited Lecture)
M. Banach
Medical University of Lodz (MUL), Lodz, Poland

15:15 AHA’S CARDIOVASCULAR HEALTH METRICS, COPD, AND CVD (Invited Lecture)
H. Lee, W. Fan, A. Lee, C. Kieu, N. Wong
University of California, Irvine, Irvine, CA, USA

15:30 ACTIVATION OF ADIPONECTIN RECEPTOR INDUCES PROPROTEIN CONVETASE SUBTILISIN/KEXIN TYPE 9 EXPRESSION BUT AMELIORATES LIPID PROFILES IN MICE (Invited Lecture)
L. Sun, X. Yang, Y. Chen, Y. Duan, J. Han
Nankai University, Tianjin, China

15:45 TRENDS OF CARDIOVASCULAR RISK FACTORS (FRAMINGHAM RISK SCORE) IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION (Invited Lecture)
Y. Plakht, A. Shiyovich; A. Abu-Eid, H. Gilutz
Ben-Gurion University of the Negev, Beer-Sheva, Israel

16:00 COFFEE BREAK, VISIT EXHIBITION
FRIDAY, JULY 14, 2017

14:00 – 16:45 Hall A

PL05 Plenary Session
CARDIAC ARRHYTHMIAS AND SUDDEN DEATH

Chairs:  
M.E. Cain, Buffalo, NY, USA  
S.C. Dudley, Minneapolis, MN, USA

14:00  
WHY IT IS TIME TO ABANDON THE ALMOST 100 YEAR OLD WAYS TO ADJUST THE QT INTERVAL FOR HEART RATE AND ADOPT A NEW MODERN APPROACH (Invited Lecture)  
S.W. Rabkin  
University of British Columbia, Vancouver, BC, Canada  

14:15  
IL-1ß INDUCES CARDIAC ARRHYTHMIA IN DIABETES THROUGH ROS REGULATION (Invited Lecture)  
S.C. Dudley  
University of Minnesota, Minneapolis, MN, USA

14:30  
NEW ELECTROCARDIOGRAPHIC PREDICTORS OF SUDDEN CARDIAC DEATH (Invited Lecture)  
M.E. Cain  
University at Buffalo, Buffalo, NY, USA

14:45  
THE PROGNOSTIC IMPACT OF SINGLE EXTRA-STIMULUS ON PROGRAMMED VENTRICULAR STIMULATION IN BRUGADA PATIENTS WITHOUT PREVIOUS CARDIAC ARREST (Invited Lecture)  
M. Takagi, Kansai Medical University, Moriguchi, Japan

15:00  
UPDATE ON CHEST COMPRESSION ONLY CPR FOR WITNESS CARDIAC ARREST VICTIMS (Invited Lecture)  
M.R. Movahed  
CareMore, University of Arizona, College of Medicine, Tucson, AZ, USA

15:15  
CARDIAC RYANODINE RECEPTOR CHANNELOPATHY (Invited Lecture)  
Shiga University of Medical Sciences, Otsu, Japan

15:30  
RISK STRATIFICATION IN PEDIATRIC ASYMPTOMATIC WOLFF-PARKINSON-WHITE PATTERN: THE ONGOING DEBATE (Invited Lecture)  
M.J. LaPage, University of Michigan Congenital Heart Center, Ann Arbor, MI, USA

15:45  
COFFEE BREAK, VISIT EXHIBITION
FRIDAY, JULY 14, 2017

14:00 - 16:15 Hall C

PL06  Plenary Session
AORTIC AND PERIPHERAL ARTERIAL DISEASE: BASIC AND CLINICAL STUDIES

Chairs:  J.A. Elefteriades, New Haven, CT, USA
         S.D. Gertz, Jerusalem, Israel

Abstract No.

14:00  MOLECULAR REGULATION OF EXTRACELLULAR MATRIX IN VASCULAR AGING (Invited Lecture)
       Y. Chen, University of Alabama at Birmingham, Birmingham, AL, USA

14:15  CYCLIC AMP ATTENUATES ANGIOTENSIN-II–INDUCED EXPRESSION OF EGR-1 VIA PKA-DEPENDENT PATHWAY IN VSMC (Invited Lecture)
       A.K. Srivastava
       CRCHUM, Montreal, Quebec, Canada

14:30  ESTIMATION OF IMMEDIATE PRE-DISSECTION AORTIC DIAMETER – IMPORTANT AND SURPRISING INFORMATION (Invited Lecture)
       J.A. Elefteriades
       Yale University School of Medicine, New Haven, CT, USA

14:45  THROMBOEMBOLIC COMPLICATIONS OF ABDOMINAL AORTIC ANEURYSM: PATHOGENETIC MECHANISMS AND LESSONS FROM PRINZMETAL'S ANGINA (Invited Lecture)
       S.D. Gertz, D. Gilon, R. Beeris, C. Rubinstein, L. Gavish
       The Hebrew University, Jerusalem, Israel

15:00  CAN PRESENCE OF AORTIC PLAQUE PREDICT CORONARY HEART DISEASE? (Invited Lecture)
       T. Tomaru, T. Matsubara, E. Matsubara
       Toho University Medical School, Tokyo, Japan

15:15  THE CLINICAL IMPORTANCE OF CARDIAC CALCIFICATIONS (Invited Lecture)
       G.S. Pressman
       Einstein Medical Center, Philadelphia, PA, USA

15:30  DILATED AORTA: IS IT SAFE TO PERFORM EXERCISE ECHOCARDIOGRAPHY? (Invited Lecture)
       M. Prokudina, N. Malinina, P. Mochalov, E. Bobrova, E. Karev, S. Verbilo
       Federal Medical Research Center. St Petersburg, Russia

15:45  NOVEL BIODEGRADABLE STENT FOR USE IN CONGENITAL HEART DISEASE (Invited Lecture)
       S.R. Veeram Reddy, T. Welch, J. Wang, M. Riegel, J. Richardson, M. Hussain,
       G. Greil, J. Forbess, A. Nugent
       University of Texas Southwestern Medical Center, Dallas, Texas, USA

16:00  SURGICAL MANAGEMENT OF AORTIC ROOT ABSCESS (Invited Lecture)
       M.A. Borger
       Heart Center, University Leipzig, Leipzig, Germany

16:15  COFFEE BREAK, VISIT EXHIBITION
16:30 INFLUENCE OF DIASTOLIC BLOOD PRESSURE ON ADVERSE OUTCOMES IN TREATMENT OF HYPERTENSION
S.H. Sundaravel, E.J. Venegas, M. Kabach, R. Chait, E. Donath
University of Miami/Palm Beach Regional Consortium, Atlantis, Florida, USA

16:45 EFFECTS OF ADDING SODIUM-GLUCOSE COTRANSPORTER-2 INHIBITORS TO STANDARD CARE IN PATIENTS WITH TYPE 2 DIABETES
A. Sharma, H. Kamran, S. Goel, D. Mukherjee
State University of New York Downstate Medical Center, New York, NY, USA

17:00 COMPLETE CORONARY REVASCULARIZATION IN ST ELEVATION MYOCARDIAL INFARCTION IN HIGH-RISK PATIENTS: DIABETICS WITH MULTIVESSEL DISEASE
R.A. Costantini, J.Mh. Telayna, J.M. Telayna
Hospital Universitario Austral, Pilar, Argentina

17:15 MANAGEMENT OF HYPERTENSION USING AMBULATORY BLOOD PRESSURE MONITORING, A SAUDI EXPERIENCE
King Abdulaziz Hospital, Alhasa, KSA

17:30 ROLE OF CGRP AND NO IN THE PROTECTIVE EFFECT OF TRANSCUTANEOUS ELECTRICAL STIMULATION IN DEVELOPMENT OF FRUCTOSE-INDUCED HYPERTENSION IN RATS
V.K. Spiridonov, Z.S. Tolochko, T.A. Korolenko
Institute of Physiol. and Basic Med., Novosibirsk, Russia

17:45 ASSOCIATION OF OBESITY TYPES WITH THE 10-YEAR CORONARY HEART DISEASE RISK IN TIBET AND XINJIANG AREA OF CHINA
Chinese Academy of Medical Sciences and Peking Union Medical College, Fuwai Hospital, Beijing, China

18:00 ISOLATED DIASTOLIC WHITE COAT HYPERTENSION
M. Arulthasan, W. Sheu, D. Bloomfield
Richmond University Medical Center, Staten Island, New York, USA

18:15 INTERVENTIONAL TREATMENT FOR RESISTANT HYPERTENSION: A SYSTEMATIC REVIEW
Federal University of Bahia; Faculdade de Medicina da Bahia, Brazil

18:30 PHARMACOKINETIC, SAFETY AND EFFICACY DATA OF CAPRE®, A NOVEL INVESTIGATIONAL OMEGA-3 DRUG DERIVED FROM KRILL OIL
Acasti Pharma Inc., Laval, QC, Canada
S22 Session
PEDIATRIC CARDIOLOGY AND CARDIAC SURGERY, CONGENITAL HEART DISEASE

Chairs: A. Lorber, Haifa, Israel
S.R. Veeram Reddy, Dallas, TX, USA

16:30 COMPARISON OF PERICARDIUM AND PULMONARY PATCH FOR AORTIC COARCTATION COMBINING HYPOPLASTIC ARCH IN INFANTS
H.T. Xu, J. Yan
National Center for Cardiovascular Disease and Fuwai Hospital, Chinese Academy of Medical Sciences, Peking Union Medical College, Beijing, China

16:45 ATRIAL FIBRILLATION AND STROKE IN PATIENTS WITH REPAIRED TETRALOGY OF FALLOT
C. Tsui, D. Wan, J. Grewal, M. Kiess, A. Barlow, D. Human, A. Krahn, S. Chakrabarti
University of British Columbia, Vancouver, BC, Canada

17:00 UN-ROOFING A MYOCARDIAL BRIDGE
S. Mok, D. Majdalany, C. Pettersson
Cleveland Clinic, Cleveland, OH, USA

17:15 LATE PRESENTATION OF SYMPTOMATIC ANOMALOUS LEFT MAIN CORONARY ARTERY
U. Batnyam, J. Mellone, A. Javaid
University of Central Florida, College of Medicine, Orlando, FL, USA

17:30 PROGNOSTIC VALUE OF RED BLOOD CELL DISTRIBUTION WIDTH IN PEDIATRIC PATIENTS WITH CONGENITAL HEART DISEASE
D. Li, X. Wang, J.X. Yang, T. Pan
Fuwai Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, P.R. China
Abstract No.

16:30 SPINAL CORD INJURY-INDUCED SYSTOLIC DYSFUNCTION IS ASSOCIATED WITH CARDIOMYOCYTE ATROPHY AND UP-REGULATION OF PROTEOLYTIC PATHWAYS
M. Poormasjedi-Meibod, J.W. Squair, M. Mansouri, C.R. West
International Collaboration on Repair Discoveries (ICORD), Faculty of Medicine, University of British Columbia, Canada

16:45 DPP-4 INHIBITION BY LINAGLIPTIN PREVENTS CARDIAC DYSFUNCTION AND INFLAMMATION BY TARGETING THE NLRP3/ASC INFLAMMASOME
Y. Ye, M. Bajaj, Y. Birnbaum
UTMB, Galveston, TX, USA

17:00 DOWNREGULATED CAVEOLIN-1 EXPRESSION PLAYS A POTENTIAL ROLE IN CORONARY ARTERY SPASM BY INDUCING NITRIC OXIDE PRODUCTION IN VITRO
X.M. Cao, X.T. Song
Daxing Hospital, Capital Medical University, Beijing, China

17:15 EFFECTS OF A DISINTEGRIN AND METALLOPROTEASE 10 ON CORONARY ARTERY IN-STENT RESTENOSIS WITH DIABETES
L. Wu, Y. Wang, Q. Cai, K. Yang, J. Cao
Ruijin Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, P.R. China

17:30 DIFFERENTIAL ROLES OF THE FULL-LENGTH AND N-TERMINAL FRAGMENT OF SERUM RESPONSE FACTOR ON CARDIOMYOCYTE DIFFERENTIATION FROM CARDIAC STEM CELLS
Hainan Medical University-Haikou, Hainan, China

17:45 ROLE OF VASCULAR AUTOPHAGY IN HYPERTENSION AND HYPOTENSIVE EFFECTS OF TETRAHYDROXYSTILBENE GLYCOSIDE IN OBESE RATS
Q. Dong, W. Xing, S. Wang, F. Gao, H. Zhang
Fourth Military Medical University, Xi’an, China

18:00 ACTIVITY AND EXPRESSION OF CHITOTRIOSIDASE IN A MURINE MODEL OF LIPEMIA INDUCED BY POLOXAMER 407 AND EFFECTIVE HYPOLIPIDEMIC PRETREATMENT
Institute of Physiology and Basic Medicine, Novosibirsk, Russia
Mayo Clinic, Arizona, USA
INTERNATIONAL ACADEMY OF CARDIOLOGY
ANNUAL SCIENTIFIC SESSIONS 2017
22nd WORLD CONGRESS ON
HEART DISEASE

VANCOUVER, BC, CANADA, JULY 14 – 16, 2017

SCIENTIFIC PROGRAM

Saturday, July 15, 2017
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<td>08:30</td>
<td>099</td>
<td>SUTURELESS VALVE ASSOCIATED A MINIMALLY INVASIVE APPROACH COVERS THE GAP BETWEEN TRANSCATHETER AORTIC VALVE IMPLANTATION AND CONVENTIONAL AORTIC VALVE REPLACEMENT (Invited Lecture)</td>
<td>A. Miceli</td>
<td>Istituto Clinico Sant’Ambrogio, Gruppo Ospedaliero San Donato, Milano, Italy</td>
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<tr>
<td>08:45</td>
<td>100</td>
<td>TRANSCATHETER AORTIC VALVE IMPLANTATION FOR PURE AORTIC REGURGITATION (Invited Lecture)</td>
<td>J. Ye</td>
<td>St. Paul’s Hospital, University of British Columbia, Vancouver, BC, Canada</td>
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<tr>
<td>09:00</td>
<td>101</td>
<td>VALVE PROSTHESIS - PATIENT MISMATCH: AN UPDATE - CLEAR THE CONFUSION AND SIMPLIFY (Invited Lecture)</td>
<td>G. Huang, S.H. Rahimtoola</td>
<td>Methodist Hospital of Southern California; University of Southern California, CA, USA</td>
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<tr>
<td>09:15</td>
<td>102</td>
<td>WHEN ANSWERS CANNOT BE FOUND IN THE TEXTBOOK – MAKING DECISIONS IN CHILDREN WITH PROFOUND DISABILITIES (Invited Lecture)</td>
<td>A. Lorber</td>
<td>Rappaport Faculty of Medicine – Technion, Haifa, Israel</td>
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<tr>
<td>09:30</td>
<td>103</td>
<td>Wnt SIGNALING IN ATHEROSCLEROSIS: THE OSTEOCARDIOLOGY GO/NO GO THEORY (Invited Lecture)</td>
<td>N.M. Rajamannan</td>
<td>Mayo Clinic, Rochester, MN, USA</td>
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<tr>
<td>09:45</td>
<td>104</td>
<td>TAVR FOR ALL COMERS WITH AORTIC STENOSIS: A DESTINATION TOO FAR? (Invited Lecture)</td>
<td>A.N. Cheema</td>
<td>University of Toronto, ON, Canada</td>
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<tr>
<td>10:00</td>
<td>105</td>
<td>PERICARDIAL CYSTS- REVISITED (Invited Lecture)</td>
<td>Y. Charuzi, R. Van Allan, J. Finkelstein-Boim, J. Mirocha</td>
<td>Cedars Sinai Medical Center, Los Angeles, USA</td>
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<tr>
<td>10:15</td>
<td>106</td>
<td>DA VINCI AORTIC AND NON-AORTIC SURGERY</td>
<td>P. Stadler, L. Dvoracek, P. Vitasek, P. Matous</td>
<td>Na Homolce Hospital, Prague, Czech Republic</td>
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<td>10:30</td>
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<td>COFFEE BREAK, VISIT POSTERS AND EXHIBITION</td>
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SATURDAY, JULY 15, 2017

08:30 – 10:15  Plenary Session

INFLAMMATION AND CARDIOVASCULAR DISEASE: FROM PATHOGENESIS TO THERAPEUTIC TARGET

Chairs: J.G. Filep, Montreal, QC, Canada
        J.L. Mehta, Little Rock, AR, USA

08:30 BEYOND SLICING AND DICING: CYSTEINE PROTEASE CATHEPSIN K A NOVEL TARGET FOR CARDIOMETABOLIC DISEASE (Invited Lecture)
S. Nair, University of Wyoming, Laramie, WY, USA

08:45 IL-10 AND TOLL LIKE RECEPTORS 2 AND 4 IN CARDIAC STRESS CONDITIONS (Invited Lecture)
P.K. Singal, A. Bagchi, P. Ayyappan, G. Akolkar
St. Boniface Hospital Albrechtsen Research Centre, University of Manitoba, Winnipeg, Manitoba, Canada

09:00 ACUTE CORONARY SYNDROMES: A ROLE FOR INFLAMMATION AND ITS RESOLUTION (Invited Lecture)
J.G. Filep
University of Montreal, Montreal, and Maisonneuve-Rosemont Hospital, Montreal, QC, Canada

09:15 INFLAMMATION, AUTOPHAGY AND MYOCARDIAL ISCHEMIA (Invited Lecture)
J.L. Mehta
University of Arkansas for Medical Sciences and CAVHS, Little Rock, AR, USA

09:30 LYSOPHOSPHATIDIC ACID IS THE CULPRIT MOLECULE INVOLVED IN BOTH ATHEROSCLEROSIS AND IN CANCER (Invited Lecture)
M. Navab, A. Chattopadhyay, P. Mukherjee, M. Hough, N. Dorreh, P. Martinez. Z. Zarina Barseghyan
David Geffen School of Medicine, University of California Los Angeles, USA

09:45 MODIFIED MYXOMAVIRAL SERPIN REACTIVE CENTER LOOP (RCL) PEPTIDE IMPROVES SURVIVAL AND OUTCOMES IN AN ACCELERATED LETHAL MOUSE INFLAMMATORY VASCULITIC SYNDROME MODEL (Invited Lecture)
Biodesign Institute/ Arizona State University, Arizona & St Joseph's Hospital, Phoenix, AZ, USA

10:00 UPSTREAM MEDIATORS OF INFLAMMATION AND THE POTENTIAL TO UNLOCK PARADOXES OF AGE-RELATED DISEASE (Invited Lecture)
S. Cheng, Brigham and Women's Hospital, Boston, MA, USA

10:15 COFFEE BREAK, VISIT POSTERS AND EXHIBITION
S24  Session
CARDIOVASCULAR IMAGING MODALITIES FOR EVALUATION OF CORONARY
CIRCULATION, CARDIAC STRUCTURE AND FUNCTION

Chairs:  A. Elhendy, Marshfield, WI, USA
T. Tomaru, Tokyo, Japan

08:30  THE UTILITY OF ECHOCARDIOGRAPHY IN SYNCOPE EVALUATION
W. Sheu, G. Faldu, S. Noriega, A. Dulku, D. Bloomfield
Richmond University Medical Center, Staten Island, NY, USA

08:45  ASSESSMENT OF LEFT VENTRICULAR SEGMENTAL MASS IN HYPERTROPHIC
CARDIOMYOPATHY BY THREE DIMENSIONAL ECHOCARDIOGRAPHY
H. Salehi
Austin Health, Melbourne, Victoria, Australia

09:00  SAFETY PROFILE OF ECHOCARDIOGRAPHIC CONTRAST AGENTS
S. Kumar, C.S. Purtell, A. Peterson, P. Gibbons, J. Lindner, S. Heitner
Oregon Health & Science University, Portland, OR, USA

09:15  CORONARY COMPUTED TOMOGRAPHY ANGIOGRAPHY AS A
COST-EFFECTIVE TEST FOR CORONARY ARTERY DISEASE
M. Gorenchtein, E. Wilson, T.J. Turco, A.N. Johnson, J.K. Hersh, K.A. Hebert
Mount Sinai St. Luke’s and Mount Sinai West Hospitals, New York, NY, USA

09:30  DOES MORPHOLOGY AND FUNCTION OF THE LEFT ATRIAL APPENDAGE
CHANGE AS A RESULT OF MITRAL REGURGITATION?
A.P. Ziganshina, E. Meoli, B.A. Ziganshin, J.A. Elefteriades, S.K. Mukherjee
Western Connecticut Health Network, Danbury Hospital, Danbury, CT; Aortic
Institute at Yale-New Haven Hospital, Yale University School of Medicine,
New Haven, CT, USA

09:45  QUANTIFICATION OF PLEURAL EFFUSIONS BY TWO-DIMENSIONAL
ECHOCARDIOGRAPHY
S.A. Chang, D. McFarlane, J. Yim, K. Gin, J. Jue, P.K. Lee, P. Nair, M. Tsang,
D. Thompson, T. Tsang
University of British Columbia, Vancouver, BC, Canada

10:00  AUTONOMOUS HEART MURMUR DETECTION IN THE ELDERLY WITH
VALVE DEFECTS
CSD Labs, Graz, Styria, Austria

10:15  SYSTEMATIC REVIEW OF USING SIMULATION TO TEACH ECHOCARDIOGRAPHY
UF Health Shands at the University of Florida, Gainesville, FL, USA

10:30  CARDIOVASCULAR ABNORMALITIES IN HIV PATIENTS AND THEIR
ASSOCIATION WITH DURATION OF HAART AND CD4 COUNT
A. Sharma, H. Dandu, A.K. Tripathi, S. Chandra
Saint Peter's University Hospital/ Rutgers Robertwood Johnson Medical School,
New Brunswick, NJ, USA

10:45  COFFEE BREAK, VISIT POSTERS AND EXHIBITION
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<td>11:00</td>
<td>Plenary Session</td>
<td><strong>IDENTIFICATION AND MODIFICATION OF NOVEL RISK FACTORS FOR CARDIOVASCULAR DISEASES</strong></td>
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|       |                                                                              | Chairs: **J.S. Borer**, New York, NY, USA  
|       |                                                                              | **J. Shirani**, Bethlehem, PA, USA  
|       |                                                                              | **Abstract No.**                                                                                      |          |
| 11:00 | LIFESTYLE FACTORS AND THE IMPACT ON LIFETIME INCIDENCE AND MORTALITY OF CORONARY HEART DISEASE | **P.E. Puddu**, A Menotti  
|       |                                                                              | Sapienza University of Rome, Italy  
|       |                                                                              | **124**                                                                                              |          |
| 11:15 | NEW CARDIOVASCULAR RISK FACTORS AND ENDOTHELIAL DYSFUNCTION                    | **C. Chen**, J.M. Lu, Q. Yao  
|       |                                                                              | Baylor College of Medicine, Houston, TX, USA  
|       |                                                                              | **125**                                                                                              |          |
|       |                                                                              | Cedars-Sinai Medical Center, Los Angeles, CA, USA  
|       |                                                                              | **126**                                                                                              |          |
| 11:45 | CARDIOVASCULAR RISKS OF RECREATIONAL MARIJUANA USE                            | **J. Shirani**  
|       |                                                                              | St. Luke’s University Health Network, PA, USA  
|       |                                                                              | **127**                                                                                              |          |
| 12:00 | NON-STEROIDAL ANTI-INFLAMMATORY DRUGS IN PATIENTS WITH CORONARY ARTERY DISEASE: RELATIVE RISKS FROM THE PRECISION TRIAL | **J.S. Borer**  
|       |                                                                              | SUNY Downstate Medical Center and College of Medicine, Brooklyn and New York, NY, USA, on behalf of the Executive Committee and other Co-Authors of PRECISION  
|       |                                                                              | **128**                                                                                              |          |
| 12:15 | NON-PLATELET THROMBOXANE GENERATION AS A NOVEL PREDICTOR OF MORTALITY         | **J. Rade**  
|       |                                                                              | University of Massachusetts Medical School, Worcester, MA, USA  
|       |                                                                              | **129**                                                                                              |          |
| 12:30 | HEALTHY WEIGHT, HEALTHY EATING AND ACTIVE LIFESTYLE REDUCE THE RISK OF HEART DISEASE AND STROKE | **H.S. Buttar**  
|       |                                                                              | University of Ottawa, Ottawa, Ontario, Canada  
|       |                                                                              | **130**                                                                                              |          |
| 12:45 | A CURRENT UPDATE ON INFLUENZA AND CARDIOVASCULAR DISEASES                      | **M. Madjid**  
|       |                                                                              | University of Texas at Houston HSC, Houston, TX, USA  
|       |                                                                              | **131**                                                                                              |          |
| 13:00 | BIG DATA IN CARDIOLOGY - WHERE WE SHOULD BE GOING AND WHY?                   | **R. Potluri**  
|       |                                                                              | Aston Medical School, Birmingham, UK  
|       |                                                                              | **132**                                                                                              |          |
| 13:15 | LUNCH BREAK, VISIT POSTERS AND EXHIBITION                                    |                                                                                                      |          |
SATURDAY, JULY 15, 2017

11:00 – 13:00  Hall B

**PL10  Plenary Session**

**HEMODYNAMICS, INTERVENTIONAL CARDIOLOGY AND SURGICAL TREATMENT**

Chairs:  
L.P. Perrault, Montreal, QC, Canada  
G.W. Vetrovec, Richmond, VA, USA

Abstract No.

**11:00**  
HEMODYNAMIC SUPPORT FOR HIGH RISK PCI AND CARDIOGENIC SHOCK: FINDING THE SWEET SPOT  
(Invited Lecture)  
G.W. Vetrovec  
VCU Pauler Heart Center, Virginia Commonwealth University, VA, USA

**11:15**  
THE IMPORTANCE OF POST-PCI FFR: “IT’S NOT OVER ‘TIL IT’S REALLY OVER”  
(Invited Lecture)  
B.F Uretsky  
University of Arkansas for Medical Sciences, Little Rock, AR, USA

**11:30**  
DURAGRAFT VASCULAR GRAFT TREATMENT IN THE PREVENTION OF PATIENTS UNDERGOING CABG  
(Invited Lecture)  
L. Perrault, M. Carrier, D. Bouchard, R. Cartier, P. Demers, Y. Lamarche, I. El-Hamamsy, D. Tanguay, D. Terronne  
Montreal Heart Institute, Montreal, QC, Canada

**11:45**  
HOW TO PREDICT THE LONG-TERM OUTCOME OF NEW STENTS?  
(Invited Lecture)  
Y. Ueda, Osaka National Hospital, Osaka, Japan

**12:00**  
ROLE OF ECMO IN ADVANCED HEART FAILURE AND CARDIAC ARREST  
(Invited Lecture)  
A. Kumar  
MMiMSR Institute, Mulana, Ambala, India

**12:15**  
COMPREHENSIVE MULTIMODAL INTRA-VASCULAR OPTICAL IMAGING WITHOUT EXOGENOUS CONTRAST AGENT  
(Invited Lecture)  
H. Yoo, Hanyang University, Seoul, Korea

**12:30**  
DEVELOPMENT OF BIODEGRADABLE NANOFIBROUS DRUG-ELUTING STENTS: CHALLENGES AND OPPORTUNITIES  
(Invited Lecture)  
S.K. Bhullar, H.S. Buttar  
Bursa Technical University, Bursa, Turkey and University of Victoria, Victoria, BC, Canada

**12:45**  
PERCUTANEOUS HEMODYNAMIC SUPPORT DEVICES IN THE CURRENT DAY CATH LAB  
(Invited Lecture)  
M. Shanmugasundaram  
The University of Arizona College of Medicine/ SAVAHCS, Tucson, AZ, USA

**13:00**  
LUNCH BREAK, VISIT POSTERS AND EXHIBITION
SATURDAY, JULY 15, 2017

11:00 - 13:15 Hall C

PL11 Plenary Session

IMPROVING UNDERSTANDING, TREATMENT AND OUTCOME IN ATRIAL FIBRILLATION

Chairs: A.B. Curtis, Buffalo, NY, USA
D. Dobrev, Essen, Germany

11:00 CELLULAR ELECTROPHYSIOLOGICAL MECHANISMS OF PAROXYSMAL ATRIAL FIBRILLATION IN PATIENTS (Invited Lecture)
D. Dobrev, University Duisburg-Essen, Essen, Germany

11:15 IS IT TIME TO RETHINK OUR MODEL OF ATRIAL FIBRILLATION AND STROKE? (Invited Lecture)
T.J. Bunch, Intermountain Medical Center Heart Institute, Murray, UT, USA

11:30 TREATMENT OF ARRHYTHMIAS IN THE ELDERLY: SPECIFIC AGE RELATED CONSIDERATIONS (Invited Lecture)
S.K. Seidl, Klinikum Ingolstadt, Ingolstadt, Deutschland

11:45 ARE LOW DOSES OF DIRECT-ACTING ORAL ANTICOAGULANTS JUSTIFIED AND APPROPRIATE IN PATIENTS WITH NONVALVULAR ATRIAL FIBRILLATION? (Invited Lecture)
A. Martinez-Rubio, O. Martinez-Torrecilla
Univ. Hosp. of Sabadell, Univ. Autonoma of Barcelona, Sabadell, Spain

12:00 UTILIZATION OF 3-D MAPPING FOR SUCCESSFUL ABLATION OF TYPICAL ATRIAL FLUTTER (Invited Lecture)
H. Paydak, University of Arkansas for Medical Sciences, Little Rock, AR, USA

12:15 INCREASED VULNERABILITY OF FAILING HEARTS TO SYMPATHETIC STIMULATION INDUCED ATRIAL FIBRILLATION: THE ROLE OF RYANODINE RECEPTOR DYSFUNCTION (Invited Lecture)
Y. Zhang
New York Institute of Technology College of Osteopathic Medicine, Old Westbury, NY, USA

12:30 ATRIAL FIBRILLATION AND GERIATRIC SYNDROMES (Invited Lecture)
K. Alagiakrishnan, University of Alberta, Edmonton, Canada

12:45 LEADLESS PACEMAKERS (Invited Lecture)
K.S. Srivathsan, Mayo Clinic, AZ, USA

13:00 FUNCTIONAL CHARACTERIZATION OF RARE VARIANTS IMPLICATED IN SUSCEPTIBILITY TO LONE ATRIAL FIBRILLATION
Kanazawa University, Kanazawa, Japan

13:15 LUNCH BREAK, VISIT POSTERS AND EXHIBITION
### SATURDAY, JULY 15, 2017

08:00 – 13:00  
Poster Hall

#### P201 ECHOCARDIOGRAPHY

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1. **PROGNOSTIC IMPACT OF LEFT VENTRICULAR REMODELING IN ARTERIAL HYPERTENSION: AN ECHOCARDIOGRAPHIC STUDY**  
   **I. Fabiani**, N.R. Pugliese, S. La Carrubba, L. Conte, F. Antonini Canterin, P. Colonna, S. Carerj, F. Benedetto, E. Calogero, V. Di Bello  
   SD Cardioangiologia Universitaria, Pisa, Italy

2. **RELATIONSHIP BETWEEN CARDIOMEGALY BY CHEST X-RAY AND LEFT VENTRICULAR SIZE BY ECHOCARDIOGRAPHY**  
   **S.A. Chang**, D. McFarlane, **J. Yim**, K. Gin, J. Jue, P.K. Lee, P. Nair, M. Tsang, D. Thompson, T.S. Tsang  
   University of British Columbia, Vancouver, BC, Canada

3. **EXERCISE INDUCED REGIONAL WALL MOTION ABNORMALITIES IN SIGNIFICANT AORTIC REGURGITATION: VOLUME OVERLOAD, DIRECTION OF AR JET OR CORONARY ARTERY DISEASE**  
   Samsung Medical Center, Seoul, South Korea

#### P203 ACUTE MYOCARDIAL INFARCTION, REPERFUSION THERAPY

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4. **OUTCOMES OF ACUTE MYOCARDIAL INFARCTION IN CENTENARIANS**  
   St. Luke's University Health Network, PA, USA

5. **EFFECT OF TAILORED USE OF TIROFIBAN IN PATIENTS WITH NON-ST-ELEVATION ACUTE CORONARY SYNDROME UNDERGOING PERCUTANEOUS CORONARY INTERVENTION**  
   Seoul National University and Seoul National University Bundang Hospital, Seongnam, Korea

6. **AMI IN PATIENTS WITH NON-OCCLUSIVE CORONARY ARTERY DISEASE. A SINGLE CENTER EXPERIENCE IN SINGAPORE**  
   Khoo Teck Puat Hospital, Singapore

7. **DIDO TIMING FOR A SECONDARY CARE HOSPITAL FOR STEMI PT. A SAUDI EXPERIENCE**  
   King Abdulaziz Hospital, Alhasa, Saudi Arabia

8. **POSSIBLE DIFFUSE ALVEOLAR HEMORRHAGE FROM BIVALIRUDIN USE**  
   **H. Latt**, S. Aung, C. Roongsritong, University of Nevada, Reno - School of Medicine, USA

9. **SPONTANEOUS CORONARY ARTERY DISSECTION: A CASE REPORT AND BRIEF REVIEW OF LITERATURE**  
   R. Manikat, **F. Elmi**, Easton Hospital, Easton, PA, USA
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### P203 ACUTE MYOCARDIAL INFARCTION, REPERFUSION THERAPY (cont.)

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**TRAZODONE INDUCED VASOSPASTIC ANGINA MIMICKING WITH ST-ELEVATION MYOCARDIAL INFARCTION**  
A. Ruhela, Y.R. Sedhai, J. Janani, **N. Kumar**, E. Mizrahi  
Mercy Catholic Medical Center, Darby, PA, USA

**VARIATIONS IN CARDIAC CATHETERIZATION PROCEDURE IN ST-ELEVATION MYOCARDIAL INFARCTION**  
University of Tennessee Health Science Center, Memphis, TN, USA

### P204 PERICARDIAL DISEASE

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**CARDIAC TAMPOANADE SECONDARY TO PURULENT PERICARDITIS IN A PATIENT WITH LUDWIG’S ANGINA AND LEMIERRE’S SYNDROME**  
**K.A. Samtani**, K.J. Booher  
Wright State University, Dayton, OH, USA

**SUDDEN CARDIAC DEATH DUE TO FOCAL PERICARDITIS INDUCED ANEURYSM FOLLOWING PERCUTANEOUS CORONARY INTERVENTION**  
H.E.B. Storer, **T. Gilotra**, T. Haddadin  
East Tennessee State University, Johnson City, TN, USA

### P205 ELECTROPHYSIOLOGY, SUDDEN DEATH, ARRHYTHMIAS AND DEVICE THERAPY

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**LONG-TERM CLINICAL BENEFITS OF TWO-INCISION TECHNIQUE FOR SUBCUTANEOUS IMPLANTABLE CARDIOVERTER-DEFIBRILLATOR**  
**D. Chang**, E. Koman, P. Patel, H. Saltzman, S.P. Kutalek  
Drexel University, Philadelphia, PA, USA

**ELECTROPHYSIOLOGICAL CHARACTERISTICS OF THE LQT2 SYNDROME MUTATION KCNH2-G572S AND REGULATION BY ACCESSORY PROTEIN KCNE2**  
General Hospital of People’s Liberation Army, Beijing City, China

**INCIDENCE AND TIMING OF RECOVERY OF CONDUCTION IN POST-CORE VALVE IMPLANTATION HEART BLOCK**  
**A. Singh**, J.H. Kaminski, J.J. Voss, F.S. Leya, P.A. Santucci  
Loyola University Medical Center, Maywood, Illinois, USA

**PERMANENT HIS BUNDLE PACING (PHBP) WITH CLS OUTPERFORMS ACCELEROMETER-BASED RATE-RESPONSIVE PACING**  
**J.R. Kneller**, K. Merrill, T. Evans, K. Larios, J. Thorndike  
Yakima Heart Center, Yakima, WA, USA
**P205  ELECTROPHYSIOLOGY, SUDDEN DEATH, ARRHYTHMIAS AND DEVICE THERAPY**  
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**P206  ATRIAL FIBRILLATION AND SUPRAVENTRICULAR ARRHYTHMIA**

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**A RARE CASE OF PROGRESSIVE HEART BLOCK WITH X-LINKED RECESSIVE INHERITANCE**

V.T. San Martin, A. Iluyomade, J.K. Bhinder, S.A. Ahsan, **S.E. Lee**, M.R. Rodriguez  
Mount Sinai St. Luke’s & Mount Sinai West, Icahn School of Medicine at Mount Sinai, New York, NY, USA

**BILATERAL SYMPATHECTOMY AS A TREATMENT MODALITY FOR TREATMENT REFRACTORY VENTRICULAR TACHYCARDIA**

Baylor University Medical Center, Dallas, TX, USA

**TRENDS IN PERMANENT PACEMAKER IMPLANTATION IN THE UNITED STATES FROM 2004-2011**

A.A. Khan, B. Brooks, H.B. Panchal, S.I.M. Zaidi, **Z. Rahman**, T. Paul, V. Ramu  
East Tennessee State University, TN, USA

**AN UNUSUAL CAUSE OF SYNCOPE: BRUGADA SYNDROME**

**S.A. Raza**, A. Goel, L. Hunter  
Methodist Health System, Dallas, TX, USA

**A NEW SOLUTION TO AN OLD PROBLEM FOR CARDIAC DEVICE HYPERSENSITIVITY**

**A. Grigos**, G.V. Dous, N. Isber, M. Arulthasan, W. Sheu  
Richmond University Medical Center, Staten Island, NY, USA

**COMPARISON OF OUTCOMES AFTER RHYTHM OR RATE CONTROL STRATEGY FOR THE NEW ONSET ATRIAL FIBRILLATION IN CRITICALLY ILL SEPSIS PATIENTS** *(Invited Presentation)*

Asan Medical Center, Seoul, Korea

**WHO WATCHES THE WATCHMAN, AND HOW OFTEN?**

**A.Z. Jiang**, T.A. Aung, K.D. Kravitz  
Good Samaritan Hospital, Wright State University, Dayton, OH, USA

**WOLFF-PARKINSON WHITE CAUSING ELECTRICAL ALTERANS ON ECG**

**E.N. Dreesens**, T.M. Ratajczak, A.A. El-Moghraby, R. Arcenas  
Wright State University Department of Internal Medicine, Dayton, OH, USA
### P207 PERIPHERAL ARTERY DISEASE AND AORTIC DISEASE

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- **26** STRICT CONTROL OF RISK FACTORS MAY NOT PREVENT PROGRESSION OF ARTERIOSCLEROSIS
  T. Matsubara, E. Mastubara, S. Kodera, J. Suzuki, N. Tanji, T. Kon, **T. Tomaru**
  Toho University Sakura Hospital, Japan

- **27** ASSOCIATION BETWEEN SYMMETRIC BICUSPID AORTIC VALVE PHENOTYPES AND PATTERN OF VALVULAR DYSFUNCTION AND AORTIC CONFIGURATION
  F. Li, Z.P. Huang, X.S. Ren
  Peking Union Medical College, Beijing, China and Chinese Academy of Medical Science, Beijing, China

- **28** PERIPHERAL INTERVENTIONS AND ANTIPLATELET THERAPY: WHERE DO WE STAND IN AN ERA OF GUIDELINE BASED THERAPY?
  O.A. Akinseye, **S. Salem**, P. Singh, Y. Harper, M. Morsy, R.N. Khouzam
  University of Tennessee Health science center, Memphis, Tennessee, USA

### P208 MISCELLANEOUS

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- **29** QUICK SEPSIS-RELATED ORGAN FAILURE ASSESSMENT (QSOFA) SCORE PREDICTS ADVERSE EVENTS IN PATIENTS WITH INFECTIVE ENDOCARDITIS
  Kanazawa University, Kanazawa, Japan

- **30** THE RELATIONSHIP OF HEART DISEASES, AUTONOMIC IMBALANCE AND PSYCHOLOGICAL FUNCTIONING
  D. Bartczak, **E. Zawadzka-Bartczak**
  Cardinal Wyszynski University, Center of Information Technologies Warsaw, Poland

- **31** A CASE OF INCIDENTAL CORONARY ARTERY ECTASIA
  X. Zhang, A. Casanegra
  Mayo Clinic, Rochester, MN, USA

- **32** ATTEMPTING TO CLEANUP A RIGHT ATRIAL MASS IN A 20 YEAR OLD FEMALE WITH ANGIOVAC
  M.R. Sheikh, S. Li, M.S. Khan, A. Zain, A. Stys, T. Stys
  University of South Dakota, Sanford School of Medicine, Sioux Falls, SD, USA
SATURDAY, JULY 15, 2017

14:00 - 16:15 Hall A

PL12 Plenary Session
HYPERTENSION, OBESITY, DIABETES MELLITUS AND CARDIOVASCULAR DISEASES, PREVENTION, RISK REDUCTION AND TREATMENT

Chairs: N.S. Dhalla, Winnipeg, MB, Canada
        B.I. Jugdutt, Edmonton, AL, Canada

Abstract No.

14:00 PROTECTION OF DIABETIC HEART WITH PDE5 INHIBITION AND HYDROXYCHLOROQUINE
R. Wang, L. Xi, R.C. Kukreja (Invited Lecture)
Virginia Commonwealth University, Richmond VA, USA

Y. Ye, M. Bajaj, Y. Hsiu-Chiung, J.R. Perez-Polo, Y. Birnbaum
UTMB, Galveston, Texas, USA

14:30 CO2 WATER-BATH AS A NOVEL THERAPY FOR THE TREATMENT OF PERIPHERAL ARTERY DISEASE IN DIABETES (Invited Lecture)
N.S. Dhalla, Y.J. Xu, V. Elimban
Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada

14:45 CARDIOVASCULAR MECHANISMS OF EXERCISE INTOLERANCE IN DIABETES AND THE ROLE OF SEX (Invited Lecture)
J.G. Regensteiner, M. Cree-Green, D. Rafferty, T.A. Bauer, J.E.B. Reusch
University of Colorado School of Medicine, Aurora, Colorado, USA

15:00 AGING AND OBESITY (Invited Lecture)
B.I. Jugdutt
University of Alberta, Edmonton, Alberta, Canada

15:15 ROLE OF THE ADIPOKINE OMENTIN IN CARDIOVASCULAR DISEASE (Invited Lecture)
N. Ouchi
Nagoya University Graduate School of Medicine, Nagoya, Japan

15:30 REVASCULARIZATION IN PATIENTS WITH DIABETES MELLITUS: OPTIMAL APPROACH IN 2017 (Invited Lecture)
G.W. Barsness
Mayo Clinic, Rochester, MN, USA

15:45 CLINICAL SIGNIFICANCE OF EXAGGERATED BLOOD PRESSURE (Invited Lecture)
P. Kokkinos
Veterans Affairs Medical Center, Washington, DC, Georgetown University School of Medicine, George Washington University School, University of South Carolina, USA

16:00 mTOR SIGNALING IN DIABETES AND MYOCARDIAL INFARCTION (Invited Lecture)
A. Das
Virginia Commonwealth University, Richmond, Virginia, USA

16:15 COFFEE BREAK, VISIT EXHIBITION
### PL13  Plenary Session
**VASCUlar REMODELING AND CARDIAC REGENERATION AND REPAIR**

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<tr>
<td>14:00</td>
<td>LOW DOSE IGF1 FOR CARDIAC CYTOPROTECTION AND REPAIR FROM MOUSE TO MAN</td>
<td>N.M. Caplice, University College Cork, Ireland</td>
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<td>14:15</td>
<td>WHERE ARE WE WITH BONE MARROW CELL THERAPY FOR HEART REPAIR?</td>
<td>B. Dawn, University of Kansas Medical Center, Kansas City, KS, USA</td>
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<td>14:30</td>
<td>WHAT YOU SHOULD KNOW ABOUT CARDIAC REMODELING</td>
<td>A.M. Gerdes, New York Institute of Technology College of Osteopathic Medicine, Old Westbury, NY, USA</td>
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<td>14:45</td>
<td>PLAQUE ANGIOGENESIS IN HUMAN ATHEROSCLEROSIS: A SYSTEMS MEDICINE APPROACH</td>
<td>T. Rademakers, M. Manca, J. Sluimer, M.J.A.P. Daemen, J. Van Buul, E.A.L. Biessen, Maastricht University, The Netherlands</td>
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<tr>
<td>15:00</td>
<td>REBUILDING THE FAILING HEART WITH CELL THERAPY: ROADBLOCKS TO OVERCOME</td>
<td>J. Zhang, UAB - The University of Alabama at Birmingham, Birmingham, AL, USA</td>
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<td>15:15</td>
<td>HISTONE DEACETYLASE INHIBITORS PREVENT CARDIAC HYPERTROPHIC REMODELING AND DYSFUNCTION IN NPR1 HAPLOTYPE MICE</td>
<td>K.N. Pandey, Tulane University Health Sciences Center, School of Medicine, New Orleans, LA, USA</td>
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<tr>
<td>15:30</td>
<td>STEM CELLS DERIVED EXOSOMES: A FUTURE OF CELL THERAPY</td>
<td>D. Singla, University of Central Florida, Orlando, FL, USA</td>
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<td>15:45</td>
<td>BIOELECTRIC STIMULATION FOR ORGAN REGENERATION</td>
<td>L.W. Miller, Leonhardt Ventures, Tampa, FL, USA</td>
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<td>16:00</td>
<td>A NOVEL MECHANISM CONTROLLING VASCULAR REMODELING</td>
<td>R. Tang, X.B. Cui, J.N. Wang, S.Y. Chen, University of Georgia, Athens, GA, USA</td>
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<td>16:30</td>
<td>MACROPHAGES AND CARDIAC REPAIR</td>
<td>E. Thorp, Feinberg School of Medicine, Chicago, IL, USA</td>
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<td>16:45</td>
<td>COFFEE BREAK, VISIT EXHIBITION</td>
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S25 Session
ARRHYTHMIA I: DIAGNOSIS, DRUG THERAPY, ABLATION

14:00 - 16:45 Hall C

Chairs: T.J. Bunch, Murray, UT, USA
A. Martinez-Rubio, Barcelona, Spain

Abstract No.

14:00 THE VALUE OF INCORPORATING THE LEFT ATRIAL SIZE TO THE CURRENT STROKE RISK SCORING SYSTEMS FOR ATRIAL FIBRILLATION.
University of Tennessee Health Science Center, Memphis, TN, USA

14:15 EFFECT OF ATRIAL FIBRILLATION ON THE IN-HOSPITAL MORBIDITY AND MORTALITY TRENDS OF TAKOTSUBO CARDIOMYOPATHY
A. Sharma, P. Charilaou, N. Patel, B. Yegneswaran, A. Badheka
Saint Peter’s University Hospital/ Rutgers Robertwood Johnson Medical School, New Brunswick, NJ, USA

14:30 ASSOCIATION OF CHA2DS2VASC AND R2CHADS2 SCORES WITH LEFT ATRIAL VOLUME INDEX: A RETROSPECTIVE STUDY OF STROKE PATIENTS WITH NON-VALVULAR ATRIAL FIBRILLATION (NVAF)
J.J. Mehta, M.R. Vindhyal, J.K. Kallail, F.A. Eid
University of Kansas School of Medicine - Wichita, KS, USA

14:45 INFERIOR VENA CAVA DIAMETER BY HAND HELD ULTRASOUND PREDICTS ATRIAL FIBRILLATION RECURRENCE AFTER CARDIOVERSION
D.W. Kehl, R. Zimmer, I. Kedan
Cedars-Sinai Heart Institute, Los Angeles, CA, USA

15:00 PVI WITHOUT FLUOROSCOPY IS AS SAFE, EFFICIENT, AND EFFECTIVE AS TRADITIONAL FLUOROSCOPIC TECHNIQUES
A. Ahmad, A. Velasco, J. Barrios, H. McElderry, V. Plumb, T. Yamada, V. Kumar, H. Doppalapudi, W. Maddox
The University of Alabama at Birmingham, Birmingham, AL, USA

15:15 AV NODAL REENTRANT TACHYCARDIA OF THE SICK
M.E. Madmani, F.J. Habash, P. Card, B. Boye, H. Paydak
University of Arkansas for Medical Sciences, Little Rock, AR, USA

15:30 INTER-OBSERVER RELIABILITY OF TWO-DIMENSIONAL SPECKLE-TRACKING DERIVED GLOBAL LEFT ATRIAL STRAIN MEASUREMENTS IN PATIENTS WITH SLEEP DISORDERED BREATHING AND PAROXYSMAL ATRIAL FIBRILLATION: RESULTS FROM THE SAFeBEAT STUDY
B. Xu, R. Byrne, R. Mehra, J. Aylor, R. Nawabit, L. Wang, J. Bena, D. Kwon
Heart and Vascular Institute, Cleveland Clinic, OH, USA

15:45 ASSOCIATION OF BRAIN NATRIURETIC PEPTIDE AND ATRIAL FIBRILLATION RECURRENCE AFTER SUCCESSFUL ELECTRICAL CARDIOVERSION: A MULTIVARIATE ANALYSIS INCLUDING DIASTOLIC DYSFUNCTION
A. Al-Sheyyab, T. Gilotra, B. Barad, M. Jbara, T. Paul
East Tennessee State University, Johnson City, Tennessee, USA
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<th>Time</th>
<th>Session Title</th>
<th>Authors</th>
<th>Institution</th>
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<tr>
<td>16:00</td>
<td>ASSESSMENT OF SAFETY OF BOLUS INJECTION OF PROTAMINE AFTER PULMONARY VEIN ISOLATION</td>
<td>T.J. Matsubara, K. Fujiu, E. Hasumi, T. Kojima, I. Komuro</td>
<td>Tokyo University, Tokyo, Japan</td>
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<td>16:15</td>
<td>RAMP™ SHEATH DECREASES THE NUMBER OF RADIOFREQUENCY ABLATION APPLICATIONS FOR BIDIRECTIONAL ISTHMUS BLOCK IN TYPICAL RIGHT ATRIAL FLUTTER</td>
<td>J.A. Thomas, J. Wong, L. Achanta, L. Oke, R. DeLongchamp, N. Pothineni, W. Maskoun, A. Sewani, H. Paydak</td>
<td>University of Arkansas for Medical Sciences, Little Rock, AR, USA</td>
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<tr>
<td>16:30</td>
<td>CONVERSION OF ISOLATED UNIDIRECTIONAL ISTHMUS BLOCK TO BIDIRECTIONAL BLOCK BY ABLATING A DIFFERENT LOCATION IN THE CAVO-TRICUSPID ISTHMUS FOR THE TREATMENT OF TYPICAL ATRIAL FLUTTER</td>
<td>J. Xu, J. Wong, S. Reddy, T.E. Watts, K. Singkhek, H. Paydak</td>
<td>University of Arkansas for Medical Sciences, Little Rock, AR, USA</td>
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<td>16:45</td>
<td>COFFEE BREAK, VISIT EXHIBITION</td>
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S26 Session
CARDIOVASCULAR DISEASE PREVENTION AND RISK MANAGEMENT

Chairs: G. Barsness, Rochester, MN, USA
S. Mora, Boston, MA, USA

16:30 ASSOCIATION OF SERUM FERRITIN WITH CARDIOVASCULAR DISEASE INCIDENCE AMONG AFRICAN AMERICANS: A JACKSON HEART STUDY
Atlanta Morehouse School of Med, GA, USA

16:45 SOCIAL SUPPORT VERSUS ISOLATION: RELATION TO GLOBAL CARDIOVASCULAR HEALTH
S.R. Behforooz, C.K. Kieu, N.D. Wong
University of California, Irvine, CA, USA

17:00 CARDIORESPIRATORY FITNESS ATTENUATES THE RISK OF CONGESTIVE HEART FAILURE IN HYPTERTENSIVES
P. Kokkinos, P. Narayan, F. Mordini, J. Myers, A. Ahmed, C. Faselis
Veterans Affairs Medical Center, Washington, DC, USA

17:15 A FEASIBILITY STUDY ON 10-YEAR CVD RISK ASSESSMENT AS A SECONDARY PREVENTION TOOL FOR CARDIOVASCULAR DISEASE
R. Shi, Y. Lan, W. Yu
Pfizer, China

17:30 PATIENT CENTERED SPECIALTY PRACTICE: THE PROVIDENCE EXPERIENCE
X. Huang, L. Jones Larson
Providence Heart Clinic, Portland, OR, USA

17:45 PREVALENCE OF ASYMPTOMATIC PERIPHERAL ARTERIAL DISEASE BY ANKLE BRACHIAL INDEX AND ITS CORRELATION TO ATHEROSCLEROTIC CARDIOVASCULAR DISEASE (ASCVD) RISK ESTIMATE AMONG PATIENTS IN A PRIVATE TERTIARY HOSPITAL IN PASAY CITY, PHILIPPINES: A PROSPECTIVE ANALYTICAL STUDY
A.V. Dela Cruz, G.M. Obrado, M.O. Matulac
Adventist Medical Center Manila. Pasay City, Philippines

18:00 MAKING THE DECISION TO QUIT SMOKING: IMPACT OF INTERACTIVE AND EDUCATIONAL VIDEO APPLIED IN POPULATION WITH MULTIMORBIDITIES
L.S. Pereira, M.F. Madureira, M.F.M. Lamas, D.A. Brum, N.P. Sobreira, N.S. Pereira, A.G.S. Galil, A.P. Cupertino, F.A.B. Colugnati
Public University of Juiz de Fora, Juiz de Fora, Minas Gerais, Brazil
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<td>17:00</td>
<td>NON-CULPRIT VESSEL OBSTRUCTIVE LESIONS IN PATIENTS WITH ANTERIOR ST ELEVATION MYOCARDIAL INFARCTION AND INFERIOR ST DEPRESSIONS</td>
<td>T.J. Breen, P. Fisher, M. Torosoff, A. Nappi</td>
<td>Albany Medical College, Albany, NY, USA</td>
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<td>17:15</td>
<td>WOMEN FAIL TO RECOGNIZE SYMPTOMS OF MYOCARDIAL INFARCTION LEADING TO DELAYS IN HOSPITAL PRESENTATION</td>
<td>E. Wilson, J.P. Cordova, C.P. Bavishi, J. Tamis-Holland</td>
<td>Mount Sinai St. Luke's and Mount Sinai West Hospitals, Icahn School of Medicine at Mount Sinai, New York, NY, USA</td>
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<td>17:45</td>
<td>THE HIGH-DEGREE ATRIOVENTRICULAR BLOCK REMAINS A SEVERE PROGNOSTIC MARKER IN THE PRIMARY PERCUTANEOUS CORONARY INTERVENTION ERA, THE NEXT STEP</td>
<td>P. Dobes</td>
<td>Glenfield Hospital, University Hospitals of Leicester NHS Trust, Leicester, UK</td>
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<td>18:00</td>
<td>ONE-YEAR MORTALITY IN TYPE 2 MI: PATIENT CHARACTERISTICS FROM A LARGE CLINICAL SERIES</td>
<td>R.D. Patel, S. Olet, J.J.F. Kram, S.A. Doleeb, P. Nallani, R.J. Logue, M.F Jan, S. Allaqaband</td>
<td>Aurora Health Care, Milwaukee, WI, USA</td>
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<td>18:30</td>
<td>POSTCONDITIONING WITH LACTATE-ENRICHED BLOOD FOR CARDIOPROTECTION IN HUMANS</td>
<td>T. Koyama, M. Munakata, T. Akima, K. Miyamoto, M. Shibata, K. Moritani, H. Kanki, S. Ishikawa, H. Mitamura</td>
<td>Saitama Municipal Hospital, Saitama City, Saitama, Japan</td>
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SATURDAY, JULY 15, 2017

17:00 – 19:15 Hall B

S27 ACUTE CORONARY SYNDROME: DETECTION, PREVENTION AND TREATMENT (cont.)

18:45 STRESS-INDUCED THROMBUS: ROLE OF ANTICOAGULATION IN TAKOTSUBO CARDIOMYOPATHY
M.R. Heckle, C.W. McCoy, R.N. Khouzam
University of Tennessee Health Science Center, Memphis, TN, USA

19:00 STEMI IN A PATIENT WITH HIV ASSOCIATED CORONARY ARTERY DISEASE
East Tennessee State University, Johnson City, TN, USA
S28  Session
ARRHYTHMIA II: SUDDEN CARDIAC DEATH / ADVANCES IN IMPLANTABLE RHYTHM DEVICE THERAPY

Chairs:  H. Paydak, Little Rock, AR, USA
         S.W. Rabkin, Vancouver, Canada

17:00  A NOVEL RYR2 P.R420W MUTATION CAUSING SUDDEN CARDIAC DEATH IN FAMILIES WITH CPVT
O.A. Abdel-Razek, A. Collier, F. Curtis, S. Predham, A. Bullen, J. Houston, S. Stuckless, S. Connors, T.L. Young, K.L. Hodgkinson
Memorial University, St. John’s, Newfoundland and Labrador, Canada

17:15  OUTCOMES IN QUADRIPOLAR VS BIPOLAR LEFT VENTRICULAR LEADS IN CARDIAC RESYNCHRONIZATION THERAPY (CRT): A META-ANALYSIS OF SEVEN STUDIES

17:30  BETTER THAN YOU THINK: APPROPRIATE USE OF IMPLANTABLE CARDIOVERTER-DEFIBRILLATORS AT A SINGLE ACADEMIC CENTER
N. Shah, S. Ross, S. Noutong Njapo, J. Merritt, A. Kolarich, M. Kaufmann, T. Burkart, W. Miles, D. Winchester, M. McKillop
University of Florida Health, Gainesville, FL, USA

17:45  SUDDEN CARDIAC DEATH (SCD) AND SUDDEN UNEXPLAINED DEATH (SUD) IN NEWFOUNDLAND AND LABRADOR: A 10 YEAR RETROSPECTIVE STUDY
Memorial University, St. John’s, NL, Canada

18:00  STAPLING FOR WOUND DEHISCENCE AFTER CARDIAC IMPLANTABLE ELECTRONIC DEVICE IMPLANTATION
O. Paydak, N.V. Pothineni, P. Card, A. Sewani
University of Arkansas for Medical Sciences, Little Rock, AR, USA

18:15  2 CASES OF PACEMAKER DERMATITIS INDUCED BY BACKPACK STRAP FRICTION
Tokyo University, Tokyo, Japan

K.S. Suarez, S.M. Mehta, S.A. Zamin, J.E. Banchs
Scott and White Medical Center, Temple, TX, USA

18:45  TORSADES DE POINTES IN THE SETTING OF IVABRADINE
E.N. Dreesens, T.M. Ratajczak, A.A. El-Moghraby, A. Wase
Wright State University, Dayton, OH, USA
19:00 RECURRENT CONTACT DERMATITIS SECONDARY TO ADHESIVE TAPE AND DERMABOND USE AFTER PACEMAKER PROCEDURE

**P. Card**, A. Shanbhag, J. Guthrie, L. Gao, H. Paydak
University of Arkansas for Medical Sciences, Little Rock, AR, USA

19:15 VENTRICULAR FIBRILLATION STORM: AN UNCOMMON PRESENTATION OF IDIOPATHIC HEART BLOCK

**O.E. Egbuche**, D. Adedinsewo, P. Agasthi, A. Onwuanyi
Morehouse School of Medicine, Atlanta, Georgia, USA
INTERNATIONAL ACADEMY OF CARDIOLOGY
ANNUAL SCIENTIFIC SESSIONS 2017
22nd WORLD CONGRESS ON
HEART DISEASE

VANCOUVER, BC, CANADA, JULY 14 – 16, 2017
SUNDAY, JULY 16, 2017

08:30 – 11:00

PL14 Plenary Session
MECHANISMS AND MANAGEMENT OF HEART FAILURE IN 2017: HOW CAN WE DO BETTER?

Chairs: P.A. Heidenreich, Palo Alto, CA, USA
J. Veselka, Prague, Czech Republic

Abstract No.

08:30 DIASTOLIC HEART FAILURE AND ATRIAL FIBRILLATION, THE TWIN-EVIL EPIDEMIC IN THE ELDERLY (Invited Lecture)
St. Louis University Medical School, St. Louis, Missouri, USA

08:45 BLOOD UREA NITROGEN REFLECTS THE COMPLEXITY OF CARDIORENAL INTERACTIONS IN HEART FAILURE (Invited Lecture)
A. Kazory, University of Florida, Gainesville, FL, USA

09:00 THE COST-EFFECTIVENESS OF NEW INTERVENTIONS FOR HEART FAILURE (Invited Lecture)
P.A. Heidenreich, Palo Alto VA Health Care System, Stanford University, Palo Alto, CA, USA

09:15 STATIN MODIFIES THE ASSOCIATION OF FISH CONSUMPTION WITH RISK OF HEART FAILURE: THE PHYSICIANS’ HEALTH STUDY (Invited Lecture)
L. Djousse, J.M. Gaziano
Brigham and Women’s Hospital and Harvard Medical School, Boston, MA, USA

09:30 THERAPY OF HYPERTROPHIC OBSTRUCTIVE CARDIOMYOPATHY (Invited Lecture)
J. Veselka
Motol University Hospital, 2nd Medical School, Charles University, Prague

09:45 KETOGENIC SIGNALING AND BDH1 AS EARLY BIOMARKERS OF DCM (Invited Lecture)
B. Tuana, University of Ottawa, ON, Canada

10:00 SEX DIFFERENCES IN BIOMARKERS OF HEART FAILURE (Invited Lecture)
D. Fairweather, K.A. Bruno, J.E. Mathews, M.J. Coronado, E.J. Douglass, A.R. Hill,
J.A. Frisancho, A. Bucek, L.A. Blauwet, L.T. Cooper
Mayo Clinic, Jacksonville, FL, USA

10:15 DIFFERENTIAL ROLES OF MITOPHAGY IN THE HEART UNDER FASTING AND DIABETIC CONDITIONS (Invited Lecture)
Q. Liang, S. Kobayashi, F. Zhao, U. Aslam, E. Lam, K. Bantis, Y. Huang, T. Kobayashi,
A. Kaminaris
New York Institute of Technology College of Osteopathic Medicine, Old Westbury,
NY, USA

10:30 IMPROVEMENTS IN BIVENTRICULAR CARDIAC MECHANICS NOTED IN PATIENTS WITH AL AMYLOIDOSIS AFTER STEM CELL TRANSPLANTATION (Invited Lecture)
C.S. Purtell, E. Scott*, S. Heitner
Oregon Health and Science University, Portland, OR, USA
PL14  Plenary Session
MECHANISMS AND MANAGEMENT OF HEART FAILURE IN 2017: HOW CAN WE DO BETTER? (cont.)

10:45  PSYCHIATRIC DISORDERS ARE LINKED TO HIGHER IN-HOSPITAL MORTALITY IN PATIENTS WITH TAKOTSUBO CARDIOMYOPATHY
S. Stroud, C. Gaefke, J. Sargeant, P. Suryanarayana, A. Abidov
University of Arizona, Tucson, AZ, USA

Abstract No. 250

11:00  COFFEE BREAK, VISIT POSTERS AND EXHIBITION
PL15  Plenary Session
ATHEROSCLEROSIS: FROM BASIC MECHANISMS TO NOVEL OPPORTUNITIES FOR DIAGNOSIS, PROGNOSIS AND TREATMENT

Chairs:  
J.D. Marsh, Little Rock, AR, USA  
K. Prasad, Saskatoon, SK, Canada  

Abstract No.

08:30 NUTRACEUTICALS IN THE PREVENTION AND TREATMENT OFATHEROSCLEROSIS (Invited Lecture)  
H. Gallagher, J.W.E. Moss, J. Williams, T.S. Davies, W. Al-Ahmadi, V. O’Morain,  
D.P. Ramji  
Cardiff University, Cardiff, UK  

08:45 THE SPASMOGENIC ACTION OF THE PROTEASOME INHIBITOR CARFILZOMIB ON ARTERIAL AND VENOUS CONDUITS FROM PATIENTS UNDERGOING CORONARY ARTERY BYPASS GRAFT SURGERY IS ACCENTUATED BY PREEXISTING TYPE II DIABETES (Invited Lecture)  
T.M. Scarabelli  
Pauley Heart Center, Virginia Commonwealth University (VCU), Richmond, Virginia, USA  

09:00 EPIGENETIC REGULATION OF ACUTE CORONARY SYNDROMES (Invited Lecture)  
L.M. Biasucci, G. La Rosa, M.C. Grimaldi, C. Mandolini, F. Crea  
Catholic University of the Sacred Heart, Rome, Italy  

09:15 LOW SERUM LEVELS OF SOLUBLE RECEPTOR FOR ADVANCED GLYCATION END PRODUCTS IS NOT AN UNIVERSAL BIOMARKER FOR CARDIOVASCULAR DISEASE (Invited Lecture)  
K. Prasad, University of Saskatchewan, Saskatoon, SK, Canada  

09:30 INTERVENTIONS FOR STROKE PREVENTION: WHAT IS A CARDIOLOGIST TO DO? (Invited Lecture)  
J.D. Marsh  
University of Arkansas for Medical Sciences, Little Rock, Arkansas, USA  

09:45 NOVEL MECHANISM OF EXERCISE-INDUCED CARDIOVASCULAR PROTECTION: ROLE OF EXOSOMES (Invited Lecture)  
Z. Hou, G. Li, X. Qin, F. Gao  
The Fourth Military Medical University, Xi’an, China  

10:00 TARGETED THERAPEUTIC STRATEGY IN HIGH-RISK PLAQUE (Invited Lecture)  
J.W. Kim  
Korea University Guro Hospital, Seoul, Republic of Korea  

10:15 IMPACT OF REACTIVE OXYGEN SPECIES ON CORONARY ATHEROSCLEROSIS (Invited Lecture)  
M. Terashima  
Toyohashi Heart Center, Toyohashi, Aichi, JAPAN
Abstract No. 10:30 IMMUNOLOGICAL CONCEPTS DRIVING ATHEROSCLEROTIC PLAQUE REGRESSION (Invited Lecture) F. Dierick, V. Michaud, T. Ebrahimian, S. Lehoux McGill University, Montreal QC, Canada

10:45 CHITOTRIOSIDASE AS A NON-LIPID MARKER OF ATHEROSCLEROSIS AND PROGNOSTIC FACTOR IN CARDIOVASCULAR EVENTS (Invited Lecture) T.A. Korolenko, M.S. Cherkanova, N.V. Goncharova, A.B. Shintyapina, G.S. Russkikh, Ts.P Korolenko Institute of Physiology and Basic Medicine, Novosibirsk, Russia

11:00 NEW INSIGHTS INTO MYOCARDIAL ISCHEMIA/REPERFUSION INJURY - HOW TO DAMP-EN A RAGE-ING HEART (Invited Lecture) Z. Yang University of Virginia, Charlottesville, VA, USA

11:15 COFFEE BREAK, VISIT POSTERS AND EXHIBITION
08:30  EFFECT OF BASELINE REGIONAL WALL MOTION ABNORMALITIES ON CORONARY FRACTIONAL FLOW RESERVE
T.A. Ahmad, I. Gilchrist, A. Basit, E.H. Campoverde, S.M. Bokhari, M. Kozak
Penn State Milton S. Hershey Medical Center, Hershey, PA, USA

08:45  META-ANALYSIS COMPARING BIORESORBABLE VS. DRUG-ELUTING STENTS
N. King, C. Wood, N.A. Smart, Plymouth University, Plymouth, Devon, UK

09:00  ROUTINE ANGIOGRAPHIC FOLLOW-UP VERSUS ROUTINE CLINICAL FOLLOW-UP AFTER PCI: META-ANALYSIS OF RANDOMIZED CONTROLLED CLINICAL TRIALS
K. Shaikh, P. Sethi, N. Rajpurohit, M. Gedela, A. Stys
Sanford Heart Hospital University of South Dakota, SD, USA

09:15  PERCUTANEOUS CORONARY INTERVENTION OUTCOMES IN PATIENTS WITH PRE-PROCEDURAL THROMBOCYTOPENIA
East Tennessee State University, Johnson City, TN, USA

09:30  USE OF CHEST X-RAY TO PREDICT PRESENCE OF TORTUOUS RIGHT BRACHIOCEPHALIC ARTERY PRIOR TO RIGHT RADIAL ACCESS FOR CARDIAC CATHETERIZATION PROCEDURES; A RETROSPECTIVE STUDY
S. Salem, D. Uppal, A. Sharma; R.N. Khouzam, R. Kedzierski, N. Garg
University of Tennessee Health Science Center, Memphis, TN, USA

09:45  SHOULD WE STILL DOUBT TRANSRADIAL ACCESS IN STEMI?
J.M. Telayna, R.A. Costantini, J.M. Telayna (h)
Hospital Universitario Austral, Buenos Aires, Argentina

10:00  SHORTER AND SHORTER DOOR-TO- BALLOON TIME FOR STEMI: SHOULD THERE BE A MINIMUM LIMIT?
T. Bob-Manuel, S. Askandar, P. Singh, M.R. Heckle, R.N Khouzam
University of Tennessee Health Science Center, Memphis, Tennessee, USA

10:15  INTRAMURAL HEMATOMAS, RECURRENT ST ELEVATION MYOCARDIAL INFARCTIONS, AND THE INSPIRATION FROM MARY POPPINS “THE CHIMNEY SWEEP TECHNIQUE”
M.S. Khan, S. Kelly, S. Li, M.R. Sheikh, T. Stys, A. Stys
University of South Dakota, Sanford School of Medicine, Sioux Falls, SD, USA

10:30  SUBCLAVIAN ARTERY STENOSIS WITH INTERNAL MAMMARY ARTERY OCCLUSION AND MUTLI-VESSEL OSTIAL STENOSES
K.A. Samtani, T.T. Aung, G.J. Fishbein
Wright State University, Dayton, OH, USA

10:45  COFFEE BREAK, VISIT POSTERS AND EXHIBITION
### S30 Session

**HEART FAILURE: PREDICTORS, NEW TREATMENT OPTIONS AND OUTCOME**

**Chairs:**
- M. Dandel, Berlin, Germany
- L. Djousse, Boston, MA, USA

**Abstract No.**

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<tr>
<td>11:30</td>
<td>ANEMIA-RELATED HIGH OUTPUT HEART FAILURE IN SICKLE CELL DISEASE (SCD)- DOES IT EXIST?</td>
<td>A.C. Atanda, O.I. Atanda, Y. Aliyu, A. Babadoko, A. Suleiman, A. Mamman, Z.Y. Aliyu</td>
<td>Howard University Hospital, Washington DC, USA</td>
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<tr>
<td>11:45</td>
<td>A SPECIALTY SPECIFIC CARDIOLOGY CARE TEAM MODEL IN A PATIENT-CENTERED MEDICAL HOME SETTING IMPROVES EFFICIENCY, ACCESS, QUALITY AND PRODUCTIVITY IN A MULTI-SPECIALITY INTEGRATED HEALTHCARE DELIVERY SYSTEM</td>
<td>A. Thakore, V. Malhotra</td>
<td>AdvantageCare Physicians, New York, NY, USA</td>
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<td>12:00</td>
<td>EFFECT OF BETA-BLOCKER THERAPY ON READMISSIONS AND MORTALITY IN HEART FAILURE PATIENTS WITH ONGOING COCAINE USE</td>
<td>O.E. Egbuche, I. Ekechukwu, N. Maduabum, U. Obinwa, K. Ukpaka, A. Onwuanyi</td>
<td>Morehouse School of Medicine, Atlanta, Georgia, USA</td>
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<td>12:15</td>
<td>EFFECTIVENESS OF IMPLEMENTATION INTERVENTIONS IN IMPROVING PHYSICIAN ADHERENCE TO GUIDELINE RECOMMENDATIONS IN HEART FAILURE: A SYSTEMATIC REVIEW</td>
<td>D. Shanbhag, J.D. Graham, K. Harlos, R.B. Haynes, I. Gavizon, S. Connolly, H.G.C. Van Spall</td>
<td>Bachelor of Health Sciences Program, McMaster University, Hamilton, ON, Canada</td>
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<td>12:30</td>
<td>ATRIAL FLUTTER IN A YOUNG WOMAN WITH DANON DISEASE</td>
<td>N.Y. Tan, S. Kapa, S.J. Asirvatham, Mayo Clinic, Rochester, MN, USA</td>
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<td>13:00</td>
<td>CHRONIC KIDNEY DISEASE AMONG PATIENTS WITH MULTIPLE CHRONIC CONDITIONS</td>
<td>T.P. Terror, M.R.S. Fonseca, L.C. Paula, M.F. Oliveira, M.S. Carvalho, P.A. Miranda, S.G. Souza, V.C. Clemente, R.B. Paula, A.G.S. Galil</td>
<td>Public University of Juiz de Fora, Minas Gerais, Brazil</td>
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<td>13:15</td>
<td>FULMINANT MYOCARDITIS CAUSED BY INFLUENZA A/H3</td>
<td>A. Quddus, R. Aurshiya, S. Pakniyat, A. Bajwa, J. Shirani</td>
<td>St. Luke's University Health Network, Bethlehem, PA, USA</td>
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NEW CONCEPTS IN THE PATHOGENESIS, DETECTION AND TREATMENT OF CARDIOVASCULAR DISEASES

Chairs:  
S. Lehoux, Montreal, QC, Canada  
D.P. Ramji, Cardiff, UK

11:30 OXIDIZED LDL INDUCED DENDRITIC CELL MATURATION AND T CELL ACTIVATION - A NOVEL IMMUNOLOGICAL ROLE OF PCSK9  
A. Liu, J. Frostegard, Karolinska Institutet, Stockholm, Sweden

11:45 SEX DIFFERENCES IN THE EFFECT OF VITAMIN D ON INFLAMMATORY HEART DISEASE: PROTECTIVE IN WOMEN BUT DAMAGING IN MEN  
K.A. Bruno, L.T. Cooper, J.E. Mathews, E.J. Douglass, J.E. Brandt, A. Bucek, M.J. Coronado, D. Fairweather  
Mayo Clinic, Jacksonville, FL, USA

12:00 SERUM LEVEL OF DHA IS INDEPENDENTLY ASSOCIATED WITH CORONARY ARTERY DISEASE IN CHINESE ELDERLY POPULATION  
Peking University First Hospital, Beijing, People's Republic of China

12:15 EFFICACY OF CANRENONE ADDED ON TOP OF MAXIMUM TOLERATED DOSE OF ANGIOTENSIN CONVERTING ENZYME INHIBITORS/ANGIOTENSIN II TYPE 1 RECEPTOR BLOCKERS PLUS HYDROCHLOROTHIAZIDE AS ASSESSED BY 24-H AMBULATORY BLOOD PRESSURE MONITORING IN UNCONTROLLED HYPERTENSIVE PATIENTS  
G.V. Gaudio, G. De Rosa, A. Lupi, A. Davino, C. Sala, A. Mugellini, V. Vulpis, S. Felis, M. Vanasia, L. Guasti  
G. Gaudio, on behalf of the ESCAPE-IT Trial Investigators group  
Asst Valle Olona, Somma Lombardo, Italy

12:30 RANOLAZINE AFTER NOVEL TREATMENT FOR ERBB2 POSITIVE BREAST CANCER (TDM1) PREVENTS CARDIOTOXICITY IN VITRO AND IN VIVO (Invited Lecture)  
Istituto Nazionale per lo Studio e la Cura dei Tumori Fondazione Giovanni Pascale- IRCCS, Naples, Italy

12:45 TISSUE-ENGINEERED HEART VALVES WITH THE AUTOASSEMBLY METHOD  
Faculty of Sciences and Engineering, Laval University, Quebec, QC, Canada

13:00 CYSTATIN C IN ACUTE LIPEMIA IN MICE PRETREATED BY ATORVASTATIN OR/AND FENOFIBRATE  
Institute of Physiology and Basic Medicine, Novosibirsk, Russia
**SUNDAY, JULY 16, 2017**

**11:00 - 13:15**  
**Hall C**

**S32 Session**  
**VALVULAR AND STRUCTURAL HEART DISEASE: MECHANISMS AND TREATMENT OPTIONS**

*Chairs:*  
**A. Miceli,** Milan, Italy  
**N. Rajamannan,** Rochester, MN, USA

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<td>State Key Laboratory of Cardiovascular Disease, Fuwai Hospital, Beijing, China</td>
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<td>Cairo University, Cairo, Egypt</td>
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<td>Cleveland Clinic, Cleveland, OH, USA</td>
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SUNDAY, JULY 16, 2017

08:00 – 13:00  Poster Hall

**P301  MOLECULAR AND CELLULAR CARDIOLOGY, BASIC RESEARCH**

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23 IMPACT OF HYPERURICEMIA ON THE CLINICAL OUTCOME AFTER PERCUTANEOUS CORONARY INTERVENTION FOR IN-STENT RESTENOSIS
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24 SPONTANEOUS CORONARY ARTERY DISSECTION – A RETROSPECTIVE ANALYSIS OF 19676 CORONARY ANGIOGRAMS
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Albert Einstein Medical Center, Philadelphia. PA, USA
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<td><strong>COULD RELYING TOO MUCH ON RADIAL APPROACH RISK LOOSING THE TRADITIONAL FEMORAL SKILLS?</strong>&lt;br&gt;S. Salem, R. Khouzam&lt;br&gt;University of Tennessee Healthy Science Center, Memphis, TN, USA</td>
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### P305  VALVULAR HEART DISEASE / TRANSCATHETER THERAPY

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<td><strong>AORTIC VALVE AND ROOT PROPORTIONS - DETAILED OBSERVATIONS</strong>&lt;br&gt;N. Koshkelashvili, I. Goykhman, <strong>G.S. Pressman</strong>&lt;br&gt;Einstein Medical Center, Philadelphia, PA, USA</td>
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<td><strong>FUNGAL ENDOCARDITIS WITH CANDIDA PARAPSILOSIS IN A PATIENT WITH IV DRUG USE</strong>&lt;br&gt;T.G. Petrie, E.S. Roberto, A. Agarwal&lt;br&gt;Wright State University Department of Internal Medicine, Dayton, OH, USA</td>
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### P306 CARDIOMYOPATHY AND HEART FAILURE: DIAGNOSIS AND MANAGEMENT

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<td>Baylor University Medical Center, Dallas TX, and Baylor Heart and Vascular Hospital, Dallas TX, USA</td>
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<td>Atherosclerosis Research Center, Jundishapur University, Ahvaz, KH, Iran</td>
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<td>Seoul Boramae Hospital, Seoul National University College of Medicine, South Korea</td>
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<td>University of Florida, Gainesville, Florida, USA</td>
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