



Non Invasive Imaging - Scientific Session

Session #608

Great Debates in Imaging: Cardiac CT

Saturday, April 2, 2016, 8 a.m. - 9:30 a.m.

Room S503

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: J. Jeffrey Carr

Co-Chair: Prediman K. Shah

8:00 a.m.

Calcium Scoring Should Be Used in Intermediate Risk Patients Before Statin

Initiation: Pro

Michael J. Blaha

8:09 a.m.

Calcium Scoring Should Be Used in Intermediate Risk Patients Before Statin

Initiation: CON

Jennifer Robinson

Iowa City, IA

8:18 a.m.

Rebuttal, Pro

8:20 a.m.

Rebuttal, Con

8:22 a.m.

Anatomic Findings by CT Are More Valuable Than Functional Findings by

Stress Testing: PRO

Matthew J. Budoff

Torrance, CA

8:31 a.m.

Anatomic Findings by CT Are More Valuable Than Functional Findings by

Stress Testing: CON

Jonathon Leipsic

Vancouver, BC

8:40 a.m.

Rebuttal, Pro

8:42 a.m.

Rebuttal, Con

8:44 a.m.

Stable Patients With Suspected CAD Should Be Required to Undergo CT Prior

to Cath: PRO

Benjamin J. W. Chow

Ottawa, Canada

8:53 a.m.

Stable Patients With Suspected CAD Should Be Required to Undergo CT Prior

to Cath: CON

Manesh R. Patel

Durham, NC

9:02 a.m.

Rebuttal, Pro

9:04 a.m.

Rebuttal, Con

9:06 a.m.

The Future of Cardiac CT is FFRCT

Gianluca Pontnoe

9:15 a.m.

The Future of Cardiac CT is Perfusion

Kelley R.H. Branch

Seattle, WA

9:24 a.m.

Rebuttal, Pro

9:26 a.m.

Rebuttal, Con

Non Invasive Imaging - Poster Contributions

Session #1111

Novel Echocardiographic Methods for Evaluating Cardiac Function

Saturday, April 2, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

221 - Comparative Left Ventricular Mechanical Activation of Takotsubo

Cardiomyopathy to Acute Anterior MI Utilizing 2D Strain Imaging

Mohamed Ahmed, Mayank Sardana, Rasla Somwail, Jorge Escobar, Josiah Bote, Mark Coelho, Aline Iskandar, Timothy Fitzgibbons, Gerard Aurigemma, University of Massachusetts, Worcester, MA, USA

222 - Layer-Specific Global Longitudinal Strain Reveals Impaired Cardiac

Function in Patients With Reversible Ischemia

Christoffer Hagemann, Soren Hoffmann, Flemming Javier Olsen, Peter Jørgensen, Jan Jensen, Tor Biering-Sorensen, Department of Cardiology, Herlev and Gentofte Hospital, University of Copenhagen, Hellerup, Denmark

223 - At What Flow Rate Does Aortic Valve Gradient Become Severely

Elevated? Implications for Guideline Recommendations on Valve Area

Cutoffs

Ayesha Salahuddin, Daniel Spevack, Montefiore Medical Center, Bronx, NY, USA

224 - Echocardiographically Measured Epicardial Fat Predicts Restenosis

After Coronary Stenting in Patients With ST Elevation Myocardial Infarction

Jin-Sun Park, You-Hong Lee, Kyoung Woo Seo, Byoung-Joo Choi, So-Yeon Choi, Myeong-Ho Yoon, Gyo-Seung Hwang, Seung Jea Tahk, Joon-Han Shin, Ajou University School of Medicine, Suwon, South Korea

225 - Changes in Left Atrial Mechanics Following Medical Treatment for

Constrictive Pericarditis

Ayman Ayache, Srikanth Koneru, Hirohiko Motoki, Saqer Alkharabsheh, Brian Griffin, Allan Klein, Cleveland Clinic Heart and Vascular Institute, Cleveland, OH, USA

226 - Assessment of Inter-Chamber Functional Relationships in Severe

Pulmonary Arterial Hypertension Using Simultaneous Strain Measurements

in Four Cardiac Chambers

Amita Singh, Kanako Kishiki, Francesco Maffessanti, Mardi Gomberg-Maitland, Victor Mor-Avi, Roberto Lang, Karima Addetia, University of Chicago, Chicago, IL, USA

227 - Importance of Right Atrial Conduit Function to Right Atrial Pressure

Estimation With Echocardiography: A Role for Atrial Strain Assessment

Leah M. Wright, Nathan Dwyer, Thomas Marwick, Menzies Institute for Medical Research, Hobart, Australia, Royal Hobart Hospital, Hobart, Australia

228 - Diastolic Myocardial Stiffness Estimated by Echocardiography in

Patients With Aortic Stenosis

Mahmoud Alashry, Sushil Luis, Sorin Pislaru, Ratnasari Padang, Patricia Pelliikka, Cristina Pislaru, Mayo Clinic, Rochester, MN, USA



229 - Evaluation of Left Atrial Morphology by a Novel Volume Rendered Imaging Based on Three-Dimensional Transesophageal Echocardiography
Qing Zhou, Hong-Ning Song, Qing Deng, Jin-Ling Chen, Bo Hu, Yi-Jia Wang, Rui-Qiang Guo, Renmin Hospital of Wuhan University, Wuhan, People's Republic of China

230 - Three-Dimensional Printing of Left Atrial Appendage From Echo Images Helps Planning Left Atrial Appendage Occlusion
Qing Zhou, Hong-Ning Song, Qing Deng, Jin-Ling Chen, Bo Hu, Lan Zhang, Rui-Qiang Guo, Renmin Hospital of Wuhan University, Wuhan, People's Republic of China

231 - Myocardial Contraction Fraction, a New Echocardiographic Parameter for Prediction of Survival in Patients With Light-Chain Amyloidosis
Paolo Milani, Angela Dispenzieri, Morie Gertz, Giampaolo Merlini, Martha Lacy, Francis K. Baudi, Shaji Kumar, Mathew Maurer, Kyle Klarich, Suzanne R. Hayman, Nelson Leung, David Dingli, John A. Lust, Yi Lin, Prashant Kapoor, Ronald S. Go, Yi Hwa, Steve Zeldenrust, Robert Kyle, Vincent S. Rajkumar, Martha Grogan, Mayo Clinic, Rochester, MN, USA, Amyloidosis Research and Treatment Center, Pavia, Italy

232 - Comparisons Between Echo-Doppler Wave Pattern and Agaston Score for Predicting Future Prognosis in Patients With Asymptomatic Aortic Stenosis
Keisuke Minami, Masaki Izumo, Kengo Suzuki, Kanako Teramoto, Maya Tsukahara, Yukio Sato, Shingo Kuwata, Ryo Kamijima, Kei Mizukoshi, Manabu Takai, Seisyou Kou, Akio Hayashi, Yoshihiro Akashi, St. Marianna University of Medicine, Kawasaki city, Japan

233 - Identification of Rarely Appropriate Echocardiograms in the Echocardiography Laboratory
Ricardo Fonseca, Faraz Pathan, Thomas Marwick, Menzies Institute for Medical Research, Hobart, Australia, University of Tasmania, Hobart, Australia

234 - Abnormal Global Longitudinal Strain Predicts Adverse Cardiac Events in Sarcoidosis
Ahmed Ibrahim, Brett Sperry, Balaji Tamarappoo, Cardiovascular Department, Cleveland Clinic, Cleveland, OH, USA

235 - Impact of Echocardiographic Diastolic Function Parameters on the Risk of Left Atrial Appendage: A Prospective Evaluation
Enrique D. Garcia-Sayan, Mita Patel, Marwan Wassouf, Rojina Pant, Saurabh Shah, Oliver D'Silva, Richard Kehoe, Rami Doukky, Rush University Medical Center, Chicago, IL, USA, Advocate Illinois Masonic Medical Center, Chicago, IL, USA

236 - The Ratio of Endocardial Longitudinal Strain Just After Exercise Stress to That at Rest Is Useful in Detecting Functional Myocardial Ischemic Segments in Stable Patients With Coronary Artery Disease
Takeshi Nishi, Nobusada Funabashi, Koya Ozawa, Masayuki Takahara, Hiroyuki Takaoka, Yoshihide Fujimoto, Yoshio Kobayashi, Chiba University Graduate School of Medicine, Chiba, Japan

263 - The Assessment of Left Atrial Function During Catecholamine Stress Test in Patients After Surgical Repair of Total Anomalous Pulmonary Venous Connection Using 3D Echocardiography
Atsuya Shimabukuro, Kiyohiro Takigiku, Kouta Takei, Seiichi Tazawa, Manabu Nitta, Koudai Momoki, Masafumi Utsumi, Satoshi Yasukouchi, Nagano Children Hospital, Azumino, Japan

264 - Appropriate Use of Echocardiography in Pediatric Chest Pain
Tuan Nguyen, Michael Fundora, Elizabeth Welch, Pamela Douglas, Benjamin Eidem, Robert Campbell, Rory Weiner, Kenan Stern, Oscar Benavidez, Wyman Lai, Ritu Sachdeva, Leo Lopez, Nicklaus Children's Hospital, Miami, FL, USA, Emory University School of Medicine and Children's Healthcare of Atlanta Sibley Heart Center, Atlanta, GA, USA

265 - Waist Circumference Is a Strong Predictor of Regional Left Ventricular Dysfunction in Asymptomatic Diabetic Patients: The Factor- 64 Study
Boaz D. Rosen, Ravi Sharma, Kenneth D. Horton, Heidi May, Yitzhak Rosen, Jeffrey Anderson, Donald Lappe, Joao Lima, J. Muhlestein, Intermountain Medical Center, Murray, UT, USA, Johns Hopkins University, Baltimore, MD, USA

266 - Association of Global Longitudinal Strain With Severity of Neurocardiac Injury in Patients With Subarachnoid Hemorrhage
Zhi Qi, Masataka Sugahara, Elizabeth A Crago, Yuefang Chang, Theodore F Lagattuta, Khalil Yousef, Robert M Friedlander, Marilyn T Hravnak, John Gorcsan, University of Pittsburgh Medical Center, Pittsburgh, PA, USA

267 - A Changing Paradigm in the Etiology of Pericardial Effusions? A 12 Year Study of Pericardiocentesis From the Cleveland Clinic
Samuel Horr, Amgad Mentias, Allan Klein, Cleveland Clinic Foundation, Cleveland, OH, USA

268 - Left Atrial to Left Ventricular End Systolic Volume Index Ratio by Echocardiography Can Predict Elevated Left Atrial Pressure in Heart Failure With Preserved Ejection Fraction
Amarbir Bhullar, Manminder Bhullar, Manmeet Singh, Kamil Muhyieddeen, Bhavik Khatri, Ryan Berg, Enrique Carbajal, Chandra Katikireddy, UCSF Fresno, Fresno, CA, USA

269 - Aortopathy in Hypertrophic Cardiomyopathy; The Association With Sinus of Valsalva Versus Mid Ascending Aorta: An Epidemiological Study
Mirza Nubair Ahmad, Mirza Mujadil Ahmad, Sharmeen Fatima Hussaini, Bijoy K. Khandheria, Renuka Jain, A. Jamil Tajik, Khawaja Afzal Ammar, Aurora Cardiovascular Services, Aurora Sinai/Aurora St. Luke's Medical Centers, Milwaukee, WI, USA

270 - Imaging Based Big Data and Machine Learning Framework for Rapid Phenotyping of Left Ventricular Diastolic Function
Alaa Mabrouk Salem Omar, Khader Shameer, Sukrit Narula, Mohamed A. Abdel-Rahman, Osama Rifaie, Jagat Narula, Joel Dudley, Partho Sengupta, Ichan School of Medicine at Mount Sinai, New York, NY, USA, Department of Cardiology Ain Shams University, Internal Medicine Department National Research Centre, Cairo, Egypt

Non Invasive Imaging - Poster Contributions

Session #1112

Nuclear Cardiology: A Potpourri

Saturday, April 2, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

237 - Heightened Hepatic Metabolism Associates With Sub-Clinical Atherosclerosis and Increased Risk of Cardiovascular Disease Events
Abdelrahman Ali, Richard Takx, Amorina Ishai, Ahmed Tawakol, Cardiac MR PET CT Program, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA

238 - 18f-Fluoride and 18f-Fluorodeoxyglucose Positron Emission Tomography After Transient Ischemic Attack or Minor Stroke: A Case-Control Study
Alex Thomas Vesey, William Jenkins, Rachael Forsythe, James Rudd, Gregom Sng, Alison Fletcher, Nicholas Mills, Marc Dweck, David Newby, University of Edinburgh, Edinburgh, United Kingdom

239 - Impact and Utility of Positron Emission Tomography for the Assessment of Inflammatory Activity in Takayasu's Arteritis
Luis Alfonso Marroquin Donday, Erick Alexanderson Rosas, Maria E. Soto-Lopez, Jose E. Telich-Tarriba, Alejandro Ricalde Alcocer, Aloha Meave, Hugo G. Rodriguez-Zanella, Fernando Inarra-Talbo, Antonio Jordan-Rios, Instituto Nacional de Cardiologia "Ignacio Chavez", Mexico City, Mexico



240 - Cardiac Positron Emission Tomography to Quantify Abnormal Coronary Flow Reserve and Risk Stratify a Prospective Cohort of End Stage Renal Disease Patients

Yehuda Paz, Rachele Morgenstern, Richard Weinberg, Mariana Chiles, Navdeep Bhatti, Ziad Ali, Sumit Mohan, Sabahat Bokhari, Columbia University Medical Center, Department of Medicine, Division of Cardiology, New York, NY, USA, Columbia University Medical Center, Department of Medicine, Division of Nephrology, New York, NY, USA

241 - Abnormal Cardiac Sympathetic Activity Detected by 123-I-Meta-Iodobenzylguanidine Imaging in Women With Signs and Symptoms of Ischemia and No Obstructive Coronary Artery Disease

Puja K. Mehta, Michael Nelson, Louise Thomson, John Friedman, Sean Hayes, David Hermel, Piotr Slomka, Amanda Swift, Janet Wei, Galen Cook-Wiens, Samira Sayari, Michael R. Irwin, David Krantz, Mark Travin, Daniel Berman, C. Noel Bairey Merz, Cedars-Sinai Medical Center, Los Angeles, CA, USA

242 - Relative Decreases in Myocardial Blood Flow Are Suggestive of Angiographically Significant Stenosis

Hannah Raasch, Raymond McCubrey, JD Ethington, Steve Mason, Viet T. Le, Kent Meredith, J. Muhlestein, Intermountain Medical Center, Murray, UT, USA, University of Utah, Salt Lake City, UT, USA

243 - Myocardial Stress Flows in Obstructive CAD Are Higher With Regadenoson Than Dipyridamole

Hannah Raasch, Raymond McCubrey, Steve Mason, JD Ethington, Viet T. Le, Kent G. Meredith, Intermountain Medical Center, Murray, UT, USA

244 - 13N-Ammonia PET-Derived Ventricular Synchrony Correlates With Myocardial Perfusion Reserve Better Than Left Ventricular Ejection Fraction: A Study in Infarcted Patients

Luis Eduardo Juarez-Orozco, Riemer Slart, Rene A. Tio, Fernando Inarra-Talboy, Andrea Monroy, AnaGabriela Ayala-German, Rudi A. Dierckx, Erick Alexanderson Rosas, Erick Alexanderson, Mexico City, WA, Mexico, Riemer HJA Slart, Groningen, The Netherlands

245 - The Yield and Prognostic Value of Single-Photon Emission Computed Tomography (SPECT) Myocardial Perfusion Imaging (MPI) in Patients With Chronic Kidney Disease (CKD) in the Pre-Operative Setting: Abnormal Tests Do Not Predict Medium-Term Mortality

Rony Lahoud, Wael Jaber, Maan Fares, Ellen Mayer Sabik, Richard Brunken, Venu Menon, Cleveland Clinic Foundation, Cleveland, OH, USA

246 - Coronary 18F-Fluoride Hybrid Positron Emission Tomography Magnetic Resonance Imaging: Initial Experience

Philip Robson, Marc Dweck, Maria Giovanna Trivieri, Nicolas Karakatsanis, Ronan Abgral, Johanna Contreras, Umesh Gidwani, Jagat Narula, Valentin Fuster, Jason Kovacic, Zahi Fayad, Icahn School of Medicine at Mount Sinai, New York, NY, USA

247 - Improving Non-Cardiologist Appropriate Use of Stress Myocardial Perfusion Imaging

Erik S. Marshall, Hung Dam, Timothy A. Manzone, Roger Kerzner, Robin Horn, William Weintraub, Christiana Care Health Systems, Newark, DE, USA

248 - Cardiac MRI and PET Have Complementary Value in the Assessment of Suspected Cardiac Sarcoidosis

Tomas Vita, David Okada, Mahdi Veillet-Chowdhury, Rachna Madan, Mukta Agrawal, Erin Mullins, Paco Bravo, Hulten Eddie, Michael Steigner, Hicham Skali, Raymond Kwong, Garrick Stewart, Sharmila Dorbala, Marcelo Di Carli, Ron Blankstein, Brigham and Womens Hospital, Boston, MA, USA

249 - Vitamin D Levels Are Associated With Prevalence and Burden of Perfusion Defects on Myocardial Perfusion Imaging

Wagas Qureshi, Amjad Ahmed, Fatima Khalid, Mouaz Al-Mallah, Wake Forest University School of Medicine, Winston Salem, NC, USA

250 - Inappropriate Use of Myocardial Perfusion Imaging in Women: Contributing Factors and Results of Testing

Ali Yousef Alsamarah, Asha Bansari, Hesham Nasser, Wajih Raza, David Winchester, University of Florida, Gainesville, FL, USA

Non Invasive Imaging - Poster Contributions

Session #1113

Epidemiology, Physiology, and Noninvasive Assessments in Sports and Exercise

Saturday, April 2, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

251 - Assessment of Right to Left Ventricular Interdependence at Rest and During Exercise and Its Relation to a Worse Functional Capacity and Ventilatory Efficiency in Heart Failure

Greta Generati, Bandera Francesco, Marta Pellegrino, Valentina Labate, Valeria Donghi, Vincenzo Tufaro, Eleonora Alfonzetti, Marco Guazzi, IRCCS Policlinico San Donato, San Donato Milanese, Italy

252 - Regional Multi-Layer Strain Measurements Using Transthoracic Echocardiogram With Exercise Stress Can Detect Clinically Stable Myocardial Ischemic Segments

Takeishi Nishi, Nobusada Funabashi, Koya Ozawa, Hiroyuki Takaoka, Masayuki Takahara, Yoshihide Fujimoto, Yoshio Kobayashi, Chiba University Graduate School of Medicine, Chiba, Japan

253 - Effects of Aerobic Exercise on Vascular Function and Inflammation
Evangelos Oikonomou, Dimitrios Athanasiou, Gerasimos Siasos, Konstantinos Mourouzis, Gerasimos Terzis, Aggeliki Stasinaki, Efstathios Dimitropoulos, Nikolaos Gouliopoulos, Eleni Kokkou, Panagiotis Tourikis, Konstantinos Spengos, Dimitris Tousoulis, 1st Department of Cardiology, 'Hippokraton' Hospital, University of Athens Medical School, Athens, Greece

254 - Fatalities in United States Triathlons: An Expanded Profile

Kevin M. Harris, Lawrence Creswell, Taylor Thomas, Tammy Haas, Monica Tung, Erin Isaacson, Ross Garberich, Barry Maron, Minneapolis Institute Foundation, Minneapolis, MN, USA, University of Mississippi, Jackson, MS, USA

255 - The Obesity Paradox on the Treadmill: Relationship Between Body Mass Index and Positive Exercise Stress Tests

Antonio Laurinavicius, Marcio Bittencourt, Fernando Cesena, Raquel Conceicao, Raul Santos, Hospital Israelita Albert Einstein, São Paulo, Brazil, InCor do HCFMUSP, São Paulo, Brazil

256 - Cardiac Fatigue, Biomarkers and Performance of Recreational Cyclists Engaged in Low Intensity, High Volume Endurance Exercise

Steen Carstensen, Christopher Voigt Carstensen, Frederik Voigt Carstensen, Nasim Samandari, Jacob Marott, Lars Odum, Lars Juel Andersen, Roskilde University Hospital, Roskilde, Denmark

257 - Characterization of Cortisol Kinetics at Different Running Intensities

Claire Lo, Marcel Brown, Miranda Contursi, Gregory Lewis, Daniel Lieberman, Aaron Baggish, Massachusetts General Hospital, Boston, MA, USA, Harvard University, Cambridge, MA, USA

258 - Metabolic Cost of Unloaded Versus Ramp Exercise: Mechanisms of Exercise Intolerance in Heart Failure Preserved Ejection Fraction

Stephanie Meller, Neal Chatterjee, Bishnu Dhakal, Paul Pappagianopoulos, Aaron Eisman, Cole S. Bailey, Aaron Baggish, Rajeev Malhotra, Gregory Lewis, Massachusetts General Hospital, Boston, MA, USA



259 - The Impact of Age and Completion of a Moderate Distance Running Race on Cardiac Function: Results From P.E.A.C.H. (Profiling the Effects of Aging on Exercise-Induced Changes in Cardiac Mechanics)
Jonathan H. Kim, Yi-An Ko, Mosaab Awad, Jeff Hedley, James Macnamara, William Taylor, Sean Healy, Hiroshi Aida, Anh Le, Melissa White, Peter Wilson, Joseph Wilson, Laurence Sperling, Aaron Baggish, Emory University, Atlanta, GA, USA

260 - Electrocardiogram Utilization in the Marathon Medical Tent
Jennifer Ann Michaud Finch, George Chiampas, R. Kannan Mutharasan, Miranda Contursi, Pierre D'Hemecourt, Sophia Dyer, Chris Troyanos, Aaron Baggish, Massachusetts General Hospital, Boston, MA, USA, Northwestern University Feinberg School of Medicine, Bank of America Chicago Marathon, Chicago, IL, USA

261 - Preserved Myocardial Metabolic Efficiency in Exercise-Induced Left Ventricular Hypertrophy
Meagan Murphy Wasfy, James R. DeLuca, Courtney Foster, Rory Weiner, Gregory Lewis, Adolph Hutter, Michael Picard, Marcelo Di Carli, Aaron Baggish, Massachusetts General Hospital, Boston, MA, USA

262 - The Relationship Between Resting Heart Rate and Peak VO2: A Comparison of Atrial Fibrillation and Sinus Rhythm
Yuko Kato, Shinya Suzuki, Hiroaki Semba, Hiroto Kano, Shunsuke Matsuno, Hideaki Takai, Takayuki Otsuka, Tokuhisa Uejima, Yuji Oikawa, Kazuyuki Nagashima, Hajime Kirigaya, Koichi Sagara, Takashi Kuniyama, Junji Yajima, Hitoshi Sawada, Tadanori Aizawa, Takeshi Yamashita, The Cardiovascular Institute, Tokyo, Japan

Non Invasive Imaging - Moderated Poster Contributions

Session #1128M

Non Invasive Imaging and Outcomes Prediction

Saturday, April 2, 2016, 10 a.m. - 12 p.m.

Non Invasive Imaging Moderated Poster Theater, Poster Area, South Hall A1

CME Hours: 2 /CNE Hours: 2

10:00 a.m.
Patterns of Left Ventricular Hypertrophy and Adverse Outcomes in Liver Transplant Recipients Without History of Hypertension
Niyada Naksuk, Thoetchai Peeraphatdit, Kyle Klarich, Mayo Clinic, Rochester, MN, USA

10:10 a.m.
Question and Answer

10:15 a.m.
Coronary Artery Calcium Score Is Superior to Carotid Plaque Score for Predicting Cardiovascular Disease Events: The Multi-Ethnic Study of Atherosclerosis
Adam D. Gepner, Rebekah Young, Joel Kaufman, Joseph Delaney, Michael Blaha, Wendy Post, Erin Michos, Joseph Polak, James Stein, University of Wisconsin School of Medicine and Public Health, Madison, WI, USA

10:25 a.m.
Question and Answer

10:30 a.m.
Clinical Outcomes of Patients With Inducible Microvascular Disease During Real Time Perfusion Echocardiography in the Absence of Angiographic Coronary Disease
Shelby Kutty, Mary Craft, Irsa Shoiab, Charles M. Kelly, Kevin Nalty, Valerie Shostrom, Thomas Porter, University Nebraska Medical Center, Omaha, NE, USA

10:40 a.m.
Question and Answer

10:45 a.m.
Left Ventricular Hypertrophy, Myocardial Fibrosis and Cardiac Decompensation in Aortic Stenosis
Russell Everett, University of Edinburgh, Edinburgh, United Kingdom

10:55 a.m.
Question and Answer

11:00 a.m.
Long-Term Prediction of All-Cause Mortality and Myocardial Infarction Using Quantified Coronary Plaque Volume and High-Risk Plaque Features
Simon Deseive, Ramona Straub, Maximilian Kupke, Martin Hadamitzky, Pieter Kitslaar, Alexander Broersen, Steffen Massberg, Joerg Hausleiter, Medizinische Klinik und Poliklinik I, University of Munich, Munich, Germany

11:10 a.m.
Question and Answer

11:15 a.m.
Long-Term Prognostic Value of Dobutamine Stress Echocardiography Wall Motion Responses: Monophasic/Normal, Ischemic, Biphasic and Nonphasic/Scar
Siu-Sun Yao, Azhar Supariwala, Amanda Yao, Farooq Chaudhry, Valley Health System, Ridgewood, NJ, USA, Mount Sinai Health System, New York, NY, USA

11:25 a.m.
Question and Answer

11:30 a.m.
Left Atrial Volume Determined by CMR Is an Independent Predictor of Incident Adverse Cardiovascular Events: The Framingham Heart Study
Saadia Qazi, Philimon Gona, Garima Arora, Carol Salton, David McManus, Christopher O'Donnell, Warren Manning, Michael Chuang, The NHLBI's Framingham Heart Study, Framingham, MA, USA, Beth Israel Deaconess Medical Center, Boston, MA, USA

11:40 a.m.
Question and Answer

11:45 a.m.
Ratio of Early Transmitral Velocity to Mitral Annular Early Diastolic Velocity: Comparison of the Predictive Value of Septal and Lateral Annular Sites in 2,062 Persons From the Community
Joanna Wang, Tor Biering-Sorensen, Peter G. Jorgensen, Jan Jensen, Rasmus Mogelvang, Gentofte Hospital, University of Copenhagen, Hellerup, Denmark

11:55 a.m.
Question and Answer

ACC Poster Moderator: Robert Kim
ACC Poster Moderator: Paolo Raggi

Non Invasive Imaging - Symposium

Session #102

Valvular Heart Disease: When Patients Don't Fit the Guidelines-Case-Based Session: Joint Symposium of the American Society of Echocardiography and the American College of Cardiology
Saturday, April 2, 2016, 12:15 p.m. - 1:45 p.m.

Room S402
CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Patricia A. Pellikka
Co-Chair: Miguel A. Quinones

12:15 p.m.
Introductory Lecture: Burden of Valve Disease
Robert O. Bonow



12:26 p.m.
Mixed Aortic Valve Disease: Moderate AS and Moderate AI. When to Intervene?
Catherine M. Otto
Seattle, WA

12:37 p.m.
Symptomatic Severe AS With Calcific MS/MR: What to Do With the Mitral Valve?
Rebecca T. Hahn
New York, NY

12:48 p.m.
Severe TR Late Following MV Surgery: Timing of Intervention
Muhamed Saric
New York, NY

12:59 p.m.
A Case of Severe Ischemic MR: When to repair? When to Replace?
Christina M. Vassileva
Springfield, IL

1:10 p.m.
A Case of Severe MR From P2 Flail in High Risk Patient: Mitraclip Versus Surgery?
Robert J. Siegel
Los Angeles, CA

1:21 p.m.
Question and Answer

Non Invasive Imaging - Scientific Session

Session #621

Controversies in Nuclear Cardiology

Saturday, April 2, 2016, 12:15 p.m. - 1:45 p.m.

Room S503

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Francesco Fedele
Co-Chair: David G. Wollinsky

12:15 p.m.
SPECT or PET for Myocardial Perfusion Imaging?
Timothy M. Bateman

12:33 p.m.
Solid State or Anger Camera for SPECT?
Terrence Ruddy
Canada

12:51 p.m.
Is Viability Testing Still Relevant?
James A. Arrighi
Providence, RI

1:09 p.m.
Will Machine Interpretation Replace Physician Interpretation?
Piotr Slomka
Los Angeles, CA

1:27 p.m.
Question and Answer

Non Invasive Imaging - Poster Contributions

Session #1149

New Technologies in Echocardiography

Saturday, April 2, 2016, 1:30 p.m. - 4:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

221 - Layer Specific Left Ventricular Strain Mechanics With 2-Dimensional Speckle Tracking Echocardiography: A Reference in Patients With No Structural Heart Disease

Rachid Abou, Melissa Leung, Martin Schlij, Nina Ajmone Marsan, Jeroen Bax, Victoria Delgado, Leiden University Centre, Leiden, The Netherlands

222 - A Quality Improvement Initiative to Decrease the Inappropriate Use of Transthoracic Echocardiograms in Heart Failure Outpatients

Stephanie Poon, Abdulaziz Algethami, Heather Ross, Rajan Bhatia, Kevin Levitt, Sunnybrook Health Sciences Centre, Toronto, Canada, University Health Network, Toronto, Canada

223 - Intraventricular Pressure Differences at Late Diastole During Ischemia: A Dog Study by the New Echocardiographic Method of Relative Pressure Imaging

Marie Stugaard, Toshiki Kamimukai, Kasumi Masuda, Daisuke Sakurai, Toshihiko Asanuma, Satoshi Nakatani, Osaka University Graduate School of Medicine, Suita, Osaka, Japan

224 - The Effects of an Electronic Medical Record on Duplicate Testing: A Study of 18,000 Transthoracic Echocardiograms

Azriel Avezbadalov, Charles A. Cevallos, Joshua R. Gildin, Simcha Pollack, Arnoux Blanchard, Michael A. Chizner, The Heart Center of Excellence, Broward Health Medical Center, Fort Lauderdale, FL, USA

225 - Left Ventricular Longitudinal Dysfunction Assessed by Longitudinal Fractional Shortening: A Clinical Two-Dimensional Echocardiographic Study
Yuya Adachi, Tetsuro Ohta, Kimiko Hiroe, Kouji Matsuda, Masaki Takeda, Seiji Okada, Kazuaki Tanabe, Shimane University Faculty of Medicine, Matsue City Hospital, Matsue, Japan

226 - Incremental Value of Echocardiographic Real Time Perfusion Imaging in Predicting Outcome of Advanced Kidney Disease Patients Undergoing Renal Transplantation

Mohammed A.R. Chamsi-Pasha, Bipul Baibhav, Abdel Rahman Al Emam, Thomas Porter, University of Nebraska Medical Center, Omaha, NE, USA

227 - Mitral Apparatus Dynamic Changes After Acute Myocardial Infarction: Comprehensive Quantitative 3D Echocardiographic Assessment

Toshiyuki Kimura, Nozomi Watanabe, William Jenkins, Veronique Roger, Maurice Sarano, Mayo Clinic, Rochester, MN, USA

228 - Yield of Transesophageal Echocardiography to Detect Invasive Complications of Aortic Prosthetic Valve Endocarditis

Paul Cremer, Ahmed Eitelbany, Nabin Shrestha, Syed Hussain, Wael Jaber, L. Leonardo Rodriguez, Steve Gordon, Brian Griffin, Gosta Pettersson, Venu Menon, Cleveland Clinic Foundation, Cleveland, OH, USA

229 - Prognostic Impact of Diastolic Wall Strain and Ankle-Brachial Index in Patients With Cardiovascular Diseases: A Sub-Analysis of IMPACT-ABI Study

Masatoshi Minamisawa, Takashi Miura, Hirohiko Motoki, Naoto Hashizume, Naoyuki Abe, Soichiro Ebisawa, Atsushi Izawa, Jun Koyama, Uichi Ikeda, 3-1-1, Asahi, Matsumoto, Japan

230 - Age-Gender Predicted Exercise Capacity Provides Incremental Prognostic Utility in Patients With $\geq 3+$ Aortic Regurgitation and Preserved Left Ventricular Systolic Function and Dimensions: An Exercise Echocardiographic Study

Amgad G. Mentias, Alaa Alashi, Ke Feng, L. Leonardo Rodriguez, A. Gillinov, Joseph Sabik, Lars Svensson, Brian Griffin, Milind Desai, Heart and Vascular Institute, Cleveland Clinic, Cleveland, OH, USA



231 - Association Between Duration of Atrial Fibrillation and Echocardiographic Measures of Left Atrial Function: Insights From the Echocardiographic Substudy of the a.m.IO-CAT Trial
Flemming Javier Olsen, Stine Darkner, Xu Chen, Steen Pehrson, Arne Johannessen, Jim Hansen, Jan Jensen, Jesper Hastrup Svendsen, Tor Biering-Sorensen, Rigshospitalet, Copenhagen, Denmark, Herlev Gentofte Hospital, Hellerup, Denmark

232 - Quantification of Left to Right Shunts by 3D Echocardiography in Patients With Atrial Septum Defects Compared With Invasive Measurement
Terada Mai, Mahara Keitaro, Tsugu Toshimitu, Saito Mika, Tamura Harutoshi, Seki Atushi, Suzuki Makoto, Tobaru Tetuya, Tomoike Hitonobu, Sakakibara Heart Institute, Tokyo, Japan

233 - 3D Echocardiography Enhanced Area Measurements of the Left Ventricular Outflow Tract Improves Assessment of Stroke Volume: Comparison With 2D Echo
David J. Sahn, Priyanka Mathur, Kacie Amacher, Evan Tracy, Muhammad Ashraf, Oregon Health & Science University, Portland, OR, USA

234 - Echocardiogram Interpretation via Google Glass
Jedrek Wosik, Thao Duong, Jose R. Martinez Parachini, Erica Resendes, Bavana Rangan, Michele Roesle, Nicole Minniefield, Laura Collins, Jerrold Grodin, Shuaib Abdullah, Subhash Banerjee, Emmanouil Brilakis, VA North Texas Health Care System, Dallas, TX, USA, University of Texas Southwestern Medical Center, Dallas, TX, USA

235 - Feasibility and Accuracy of the Novel Three-Dimensional Carotid Ultrasound Technique: Comparison With Two-Dimensional Ultrasound and Carotid CT Angiography
Ran Heo, Hyuk-Jae Chang, In-Jeong Cho, Jinki Park, Jinyong Lee, Chi Young Shim, Geu-Ru Hong, Namsik Chung, Yonsei College of Medicine, Seoul, South Korea, Severance Cardiovascular Hospital, Seoul, South Korea

236 - Effect of Transthoracic Ultrasound Induced Microbubble Cavitation on Coronary Artery Diameter in Different Pathophysiological Conditions
Thomas Richard Porter, Feng Xie, John Lof, Thomas Porter, University of Nebraska Medical Center, Omaha, NE, USA

263 - Predictors of Decreased Exercise Capacity in Patients With Heart Failure and Reduced Ejection Fraction: Role of Right Ventricular Free Wall Longitudinal Strain Obtained Using Different Echocardiography Machines and Analytical Softwares
Ahmed Ibrahim, Andres Schuster, Muhammad Hammadah, Wai Hong Tang, Cardiovascular Department, Cleveland Clinic Foundation, Cleveland, OH, USA

264 - Feasibility and Relative Accuracy of Three-Dimensional Printing of Normal and Pathologic Tricuspid Valves From Transthoracic Three-Dimensional Echocardiographic Data Sets
Denisa Muraru, Federico Veronesi, Gabriella Romeo, Patrizia Aruta, Daniele Dequal, Sabino Iliceto, Luigi Badano, Dept of Cardiac, Thoracic and Vascular Sciences, University of Padua, Padua, Italy

265 - Echocardiographic Evaluation of Cardiovascular Disease in Ankylosing Spondylitis: A Prospective Case-Control Study
Risheen S. Reeihsinghani, Kathryn Brown, Nelson Schiller, Grace Yoon, Lianne Gensler, Elyse Foster, University of California, San Francisco, San Francisco, CA, USA

266 - Focused, Abbreviated Training in the Performance and Interpretation of Transthoracic Echocardiography Shows Promise in Rural Uganda
Catherine Bennet, Fardous Charles Abeya, Ari Hoffman, Joselyn Rwebembera, Malissa Wood, Michael Picard, Samson Okello, Mbarara University of Science and Technology, Mbarara, Uganda, Massachusetts General Hospital, Boston, MA, USA

267 - The Association of Resting Left Atrial Structure and Function With Exercise Capacity in Patients With Stable Coronary Artery Disease: The Heart and Soul Study
Randell Thomas, Mary Whooley, Nelson Schiller, Rakesh Mishra, University of California, San Francisco, San Francisco, CA, USA, VA Medical Center, San Francisco, San Francisco, CA, USA

268 - Atrial Emptying Fraction Predicts Maintenance of Sinus Rhythm Post Direct Current Cardioversion for Atrial Fibrillation
Christina Luong, Darby Thompson, Kenneth Gin, John Jue, Parvathy Nair, Marion Barnes, PK Lee, Matthew Bennett, Teresa Tsang, University of British Columbia, Vancouver, Canada

269 - B-Type Natriuretic Peptide Levels in Patients With Pericardial Effusion Undergoing Pericardiocentesis
Nicola Cosentino, Gianfranco Lauri, Chiara Rossi, Mara Rubino, Valentina Milazzo, Ivana Marana, Marco Moltrasio, Monica De Metrio, Marco Grazi, Jeness Campodonico, Giancarlo Marenzi, Centro Cardiologico Monzino, Milan, Italy

270 - Screening Echocardiograms in Senior-Focused Value-Based Primary Care Improve Systolic Heart Failure Clinical Management and Outcomes
Reyan A. Ghany, Leonardo Tamariz, Gordon Chen, Alina Ghany, Emancia Forbes, Ana Palacio, Chen Neighborhood Medical Centers, Miami, FL, USA

Non Invasive Imaging - Poster Contributions Session #1150

Non Invasive Imaging: CT Determination of Functional Ischemia
Saturday, April 2, 2016, 1:30 p.m. - 4:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

237 - Real-World Feasibility of Noninvasive Fractional Flow Reserve Derived From Computed Tomography (Real-FFRCT) Study
Tetsuma Kawajii, Hiroki Shiomi, Hirooki Higami, Charles Taylor, Takeshi Kimura, Department of Cardiovascular Medicine, Kyoto University Graduate School of Medicine, Kyoto, Japan

238 - Aortic Angulation Attenuates Procedural Success Following Self-Expandable but Not Balloon-Expandable Transcatheter Aortic Valve Implantation
Yigal Abramowitz, Yoshio Maeno, Tarun Chakravarty, Geeteshwar Mangat, Yoshio Kazuno, Nobuyuki Takahashi, Hiroyuki Kawamori, Mamoo Nakamura, Wen Cheng, Hasan Jilaihawi, Raj Makkar, Cedars-Sinai Medical Center, Los Angeles, CA, USA

239 - Noninvasive Vessel-Specific Absolute Myocardial Blood Flow and Flow Reserve by Means of Dynamic NH3 PET/CTA Image Fusion: Development of Normal Limits
Marina Piccinelli, Hee-Seung Bom, Erick Alexanderson, David Cooke, Russell Folks, Daya Manatunga, Ernest Garcia, Emory University School of Medicine, Atlanta, GA, USA

240 - Noninvasive Assessment the Hemodynamic Significance of Coronary Stenosis Using Fusion of Cardiac Computed Tomography and 3D Echocardiography
Victor Mor-Avi, Francesco Maffessanti, Mita Patel, James J. Walter, Anuj Mediratta, Diego Medvedofsky, Waseem Cossor, Roberto Lang, Amit Patel, University of Chicago Medical Center, Chicago, IL, USA

241 - Coronary Luminal Attenuation Value of Coronary Computed Tomography Angiography Identify Coronary Artery Severe Stenosis: Comparison Between Coronary CTA and SPECT
Nahoko Kato, Satoru Kishi, Tatsuyuki Sato, Kentaro Yasuhara, Koichi Furui, Yu Horiuchi, Shuzou Tanimoto, Jiro Aoki, Kenji Ibukuro, Kengo Tanabe, Mitsui Memorial Hospital, Tokyo, Japan



242 - Fractional Flow Reserve Computerized Tomography and Subsequent Coronary Revascularization

Rene R. S. Packard, Dong Li, Matthew Budoff, Ronald P. Karlsberg, Cardiovascular Research Foundation of Southern California, Cedars Sinai Heart Institute, Los Angeles, CA, USA, Ronald Reagan UCLA Medical Center, UCLA School of Medicine, Los Angeles, CA, USA

243 - Incremental Role of Resting Myocardial Computed Tomography Perfusion for Predicting Physiologically Significant Coronary Artery Disease: A Machine Learning Method Approach

Donghee Han, Ji Hyun Lee, Asim Rizvi, Kimberly Elmore, Heidi Gransar, Briain O Hartaigh, Fay Lin, James Min, Guanglei Xiong, New York-Presbyterian Hospital and the Weill Cornell Medicine, New York, NY, USA

244 - Correlation Between Automatic Angio-Based Coronary Artery Stiffness Assessment and Visual Oct Pathology Scoring

Mitchel Benovoy, Audrey Dionne, Farida Cheriet, Roch Listz Maurice, Nagib Dahdah, Polytechnique Montréal, Montréal, Canada, Ste-Justine University Hospital Center, Montreal, Canada

245 - Diagnostic Accuracy of ASLA Score (A Novel CT Angiographic Index) and Aggregate Plaque Volume in the Assessment of Functional Significance of Coronary Stenosis

Ravi Kiran Munnur, Liam McCormick, Brian Ko, Peter Psaltis, James Cameron, Ian Meredith, Sujith Seneviratne, Dennis Wong, Monash Heart, Melbourne, Australia

246 - Diagnostic Accuracy of Transluminal Attenuation Gradient in 80-Detector Row Computed Tomography in Predicting Functional Stenosis

Mayu Nishio, Yasuji Doi, Keiji Hirooka, Saiseikai Senri Hospital, Suita, Japan

247 - Coronary Lesion Characteristics Influencing Diagnostic Accuracy of Fractional Flow Reserve Computed From CT in Clinical Practice

Toru Miyoshi, Kazuhiro Osawa, Hiroshi Ito, Okayama University Hospital, Okayama, Japan

248 - Non-Invasive Calculation of Fractional Flow Reserve for Reclassification of Potentially Hemodynamically-Significant Coronary Artery Disease by Coronary Computed Tomography Angiography in Emergency Department Chest Pain Patients

Harold Litt, Erin Greco, Souma Sengupta, Campbell Rogers, Christian Hamilton-Craig, Judd Hollander, Perelman School of Medicine of the University of Pennsylvania, Philadelphia, PA, USA, American College of Radiology Imaging Network, Philadelphia, PA, USA

249 - Incremental Benefit of Computed Tomography Derived Resting Myocardial Perfusion Using Machine Learning Method and Computed Tomography Derived Fractional Flow Reserve for Predicting Lesion Ischemia

Ji Hyun Lee, Asim Rizvi, Donghee Han, Briain O Hartaigh, Heidi Gransar, Fay Lin, James Min, Guanglei Xiong, New York-Presbyterian Hospital and the Weill Cornell Medicine, New York, NY, USA

250 - Usefulness of Atherosclerotic Plaque Diffuseness and Volume by Coronary Computed Tomography Angiography for Predicting Coronary Lesion-Specific Ischemia by Fractional Flow Reserve

Asim Rizvi, Ibrahim Danad, Jackie Szymonifka, Donghee Han, Ji Hyun Lee, Laura Mauri, Martin Leon, Fay Lin, Briain O Hartaigh, James Min, DeFACTO Investigators, Weill Cornell Medicine, New York, NY, USA

Non Invasive Imaging - Poster Contributions

Session #1151

Non Invasive Imaging: MR Cardiac Structure and Function

Saturday, April 2, 2016, 1:30 p.m. - 4:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

251 - Impact of Vasodilator Agents on Ventricular Function During Cardiac MRI Stress Testing

Joshua Seungoh Lee, Matthew Minor, Kevin Steel, San Antonio Military Medical Center, San Antonio, TX, USA

252 - Mesenchymal Stem Cells Combined With Hepatocyte Growth Factor Therapy for Attenuating Ischemic Myocardial Fibrosis: Assessment With Multimodal Molecular Imaging

Huizhu Chen, Rui Xia, Zhenlin Li, Lizhi Zhang, Chunchao Xia, Zhigang Yang, Hua Ai, Yingkun Guo, Department of Radiology, Key Laboratory of Obstetric & Gynecologic and Pediatric Diseases and Birth, Chengdu, People's Republic of China

254 - Pericarditis and Persistent Chest Pain in Women

Daniel Morgenstern, Brandon Mikolich, Nicholas Boniface, Michael Burley, J. Ronald Mikolich, Sharon Regional Health System, Sharon, PA, USA, Northeast Ohio Medical University (NEOMED), Rootstown, OH, USA

255 - Prognostic Benefit of Cardiac Magnetic Resonance Over Transthoracic Echocardiography for the Assessment of Ischemic and Non-Ischemic Dilated Cardiomyopathy Patients Referred for Primary Prevention Implantable Cardioverter Defibrillator Therapy

Gianluca Pontone, Daniele Andreini, Marco Guglielmo, Anna Solbiati, Saima Mushtaq, Andrea Baggiano, Virginia Beltrama, Virginia Beltrama, Cristina Rota, Andrea Igoeren Guaricci, Mauro Pepi, Centro Cardiologico Monzino, Milan, Italy

256 - Impact of Individual Components of the CHA2DS2-VASc Score Compared With Atrial Fibrillation on Left Atrial Fibrosis Progression

Jordan King, Mohamed Labedi, Robert White, Mihail Chelu, Gagandeep Kaur, Kara Johnson, Christina Pacchia, Nassir Marrouche, Comprehensive Arrhythmia and Research Management Center, University of Utah, School of Medicine, Salt Lake City, UT, USA, Pharmacotherapy Outcomes Research Center, University of Utah, College of Pharmacy, Salt Lake City, UT, USA

257 - Fibroblast Growth Factor-23 and Cardiac MRI Indices of Myocardial Fibrosis in the Multi-Ethnic Study of Atherosclerosis

Mohamed Maher Almahmoud, David Herrington, W. Hundley, Jennifer Jordan, Bryan Kestenbaum, Ronit Katz, Erin Michos, Chia-Ying Liu, Bharath Ambale Venkatesh, Joao Lima, Wake Forest University, Winston Salem, NC, USA

258 - Left Ventricular Longitudinal Function Assessed With Cardiac Magnetic Resonance Imaging Effectively Reclassifies Patient Risk Beyond Clinical Variables

Vibhav S. Rangarajan, Satish Chacko, Nikhil Jariwala, Simone Romano, Jay Patel, Jaehoon Chung, Afshin Farzaneh-Far, University of Illinois at Chicago, Chicago, IL, USA, Duke University, Durham, NC, USA

259 - Persistent Microvascular Obstruction Accompanying Myocardial Infarction Leads to Chronic Iron-Driven Inflammation

Ivan Cokic, Avinash Kali, Hsin-Jung Yang, Richard Tang, Frank Prato, David Underhill, Rohan Dharmakumar, Cedars-Sinai Medical Center, Los Angeles, CA, USA

260 - Normal Ranges for MRI Feature Tracking Strain: A Systematic Review and Meta-Analysis From 659 Healthy Subjects

Ha Quang Vo, Thomas Marwick, Kazuaki Negishi, Menzies Institute for Medical Research, Hobart, Australia

261 - High-Resolution End-Systolic Myocardial Perfusion MRI Enables Reliable Detection of Subendocardial Ischemia in the Absence of Obstructive Coronary Disease

Behzad Sharif, Daniel Berman, Rohan Dharmakumar, C. Noel Bairey Merz, Cedars-Sinai Medical Center, Los Angeles, CA, USA



262 - Myocardial Remodelling and Fibrosis in Nonischaemic Dilated Cardiomyopathy: Insights From Cardiovascular Magnetic Resonance
 Andrea Barison, Alessandro Ortalda, Giancarlo Todiere, Giuseppe Vergaro, Chrysanthos Grigoratos, Gianluca Mirizzi, Alessandro Valleggi, Sara Chiappino, Luigi Pastormerlo, Claudio Passino, Giovanni Donato Aquaro, Michele Emdin, Fondazione Toscana Gabriele Monasterio, Pisa, Italy

Non Invasive Imaging - Symposium

Session #105

Cardiac Magnetic Resonance in the Assessment of Ischemic Heart Disease: Complementary Roles and New Perspectives: Joint Symposium of the Society for Cardiovascular Magnetic Resonance and the American College of Cardiology

Saturday, April 2, 2016, 2 p.m. - 3:30 p.m.

Room S402

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: John Heitner

Co-Chair: Juerg Schwitler

Panelist: Colin Berry Kingdom

Panelist: Chiara Bucciarelli-Ducci Kingdom

Panelist: John Greenwood Kingdom

Panelist: Monvadi Barbara Srichai-Parsia

Panelist: S. Richard Underwood Kingdom

2:00 p.m.

Non-Invasive Imaging in IHD: Overall Perspective

S. Richard Underwood

London, United Kingdom

2:15 p.m.

Perfusion Assessment by CMR as a Surrogate for Ischemia

Monvadi Barbara Srichai-Parsia

Brooklyn, NY

2:30 p.m.

Myocardial Edema and Salvage Imaging by CMR

Colin Berry

Glasgow, United Kingdom

2:45 p.m.

Limitations and Pitfalls of Stress CMR in Clinical Practice

Chiara Bucciarelli-Ducci

London, United Kingdom

3:00 p.m.

New Directions in CMR for IHD

John Greenwood

Leeds, United Kingdom

3:15 p.m.

Panel Discussion

Non Invasive Imaging - Scientific Session

Session #636

How New Echo Guidelines Can Be Incorporated Into Everyday Practice

Saturday, April 2, 2016, 2 p.m. - 3:30 p.m.

Room S503

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Allan L. Klein

Co-Chair: Kirk T. Spencer

2:00 p.m.

Valvular Regurgitation-A practical and Integrated Approach to Assess Regurgitation

Mani A. Vannan

2:15 p.m.

Left Ventricular Chamber Quantification-Are There Really New Standards?

Roberto M. Lang

Chicago, IL

2:30 p.m.

Right Ventricular Size and Function-Why the New Guidelines Make It Easier?

Lawrence G. Rudski

Montreal, Canada

2:45 p.m.

Thoracic Aorta-It Is Not Just Echo Anymore

Federico M. Asch

Washington, DC

3:00 p.m.

Cardio-Oncology-Now There Is a New Standard

Marielle Scherrer-Crosbie

Somerville, MA

3:15 p.m.

Question and Answer

Non Invasive Imaging - Moderated Poster Contributions

Session #1165M

Recent Advances in Cardiac MR

Saturday, April 2, 2016, 3:45 p.m. - 4:30 p.m.

Non Invasive Imaging Moderated Poster Theater, Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

3:45 p.m.

Myocardial Extracellular Matrix Volume Has Independent Prognostic Value in Patients With Non-Ischemic Cardiomyopathy

Tomas Vita, Siddique Abbasi, Ethan Rowin, Gokturk Ipek, Neilan Tomas,

Hoshang Farhad, Eri Watanabe, Francois-Pierre Mongeon, Michael Givertz,

Ron Blankstein, Michael Steigner, Marcelo Di Carli, Michael Jerosch-Herold,

Raymond Kwong, Brigham and Womens Hospital, Boston, MA, USA

3:55 p.m.

Question and Answer

4:00 p.m.

Impact of Cardioprotective Therapies on Myocardial Edema After Ischemia/Reperfusion

Rodrigo Fernandez-Jimenez, Carlos Galán-Arriola, Jaume Aguero, Javier

Sanchez-Gonzalez, Gonzalo J López-Martin, Jaime García-Prieto, Ines Garcia-

Lunar, Gonzalo Pizarro, Valentin Fuster, Borja Ibanez, Fundacion Centro

Nacional de Investigaciones Cardiovasculares Carlos III (CNIC), Madrid, Spain

4:10 p.m.

Question and Answer

4:15 p.m.

Intramyocardial Hemorrhage After Reperused Myocardial Infarction Is

Related to Anatomic Location of the Culprit and Anti-Coagulant Therapy

Ruben Tijssen, Paul Teunissen, Rodrigo Fernandez-Jimenez, Gonzalo Pizarro,

Ines Garcia-Lunar, Peter van de Ven, Aernout Beek, Martijn Smulders,

Sebastiaan Bekkers, Niels Van Royen, Borja Ibanez, Robin Nijveldt, VUmc,

Amsterdam, The Netherlands



4:25 p.m.
Question and Answer

ACC Poster Moderator: Victor A. Ferrari
ACC Poster Moderator: Nathaniel Reichek

Non Invasive Imaging - Symposium

Session #107

Nuclear Cardiology in 2015 and 2025: Joint Symposium of the American Society of Nuclear Cardiology and the American College of Cardiology

Saturday, April 2, 2016, 4:45 p.m. - 6 p.m.

Room S402

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Brian G. Abbott
Co-Chair: Kim Allan Williams

4:45 p.m.
2015: CAD: Diagnosis and Prognosis: The Power of SPECT
Rory Hachamovitch

4:53 p.m.
2025: CAD Diagnosis and Prognosis: The Promise of PET
Timothy M. Bateman

5:01 p.m.
2015: Cardiomyopathies: Our Current Success With Failure
James E. Udelson
Boston, MA

5:09 p.m.
2025: Cardiomyopathies: Why Nuclear Cardiology Will Not Fail
Prem Soman
Pittsburgh, PA

5:17 p.m.
2015: Radiation Concerns: What Really Are the Risks?
Manuel D. Cerqueira

5:25 p.m.
2025: Radiation Concerns: How Low Can We Go?
Gary V. Heller
Morristown, NJ

5:33 p.m.
2015: PET Imaging: Is It Still Viable?
Randall C. Thompson

5:41 p.m.
2025: Novel Applications: Going Beyond Perfusion
Sharmila Dorbala
Boston, MA

5:49 p.m.
Question and Answer

Non Invasive Imaging - Scientific Session

Session #648

CMR Promotes Effective and Efficient Health Care Delivery

Saturday, April 2, 2016, 4:45 p.m. - 6 p.m.

Room S503

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Andrew E. Arai
Co-Chair: Leslee J. Shaw

4:45 p.m.
CMR to Enhance Effectiveness of CV Testing: Results of Randomized Clinical Trials
Chadwick Miller

5:00 p.m.
CMR as a Gatekeeper for Management of Ischemic Heart Disease
Victor A. Ferrari
Philadelphia, PA

5:15 p.m.
Evaluation of Syncope
Nathaniel Reichek
Roslyn, NY

5:30 p.m.
Assessment of Cardiomyopathy
Jeanette Schulz-Menger
Berlin, Germany

5:45 p.m.
Registries to Promote Effective Health Care Delivery
Raymond Y. K. Kwong
Boston, MA

Non Invasive Imaging - Scientific Session

Session #649

Application of Cardiac CT in 2016: Case-Based Discussions

Saturday, April 2, 2016, 4:45 p.m. - 6 p.m.

Room S504

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Ron Blankstein
Co-Chair: Gregory S. Thomas

4:45 p.m.
Asymptomatic Patient: Coronary Calcium Testing and Current Risk Assessment Guidelines
Michael J. Blaha

4:57 p.m.
Question and Answer

5:00 p.m.
Acute Chest Pain: CTA in the ED
Kavitha Chinnaiyan
Plymouth, MI

5:12 p.m.
Question and Answer

5:15 p.m.
Stable Chest Pain: Role of CTA Post-PROMISE?
Udo Hoffmann
Boston, MA

5:27 p.m.
Question and Answer

5:30 p.m.
Post-CT: Clinical Management of Cardiac CT Findings
Todd C. Villines
Rockville, MD

5:42 p.m.
Question and Answer



5:45 p.m.
Pre-TAVR
Paul Schoenhagen
Cleveland, OH

5:57 p.m.
Question and Answer

Non Invasive Imaging - Scientific Session

Session #661

Cardiac Involvement in Systemic Disease

Sunday, April 3, 2016, 8 a.m. - 9:30 a.m.

Room S504

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: John Gorcsan
Co-Chair: Edward T. Yeh

8:00 a.m.
Cardiac Imaging During Pregnancy
Anne Marie Valente

8:15 a.m.
Left Ventricular Adaptations of the Athlete
Matthew W. Martinez
Allentown, PA

8:30 a.m.
Right Ventricular Adaptations of the Athlete
Aaron L. Baggish
Boston, MA

8:45 a.m.
Radiation Exposure and Cardiovascular Disease
Andrew Jeffrey Einstein
New York, NY

9:00 a.m.
Cardiac Imaging of Carcinoid
Heidi M. Connolly
Rochester, MN

9:15 a.m.
Cardiac Imaging of Chemotherapy
Raymond R. Russell
Providence, RI

Non Invasive Imaging - Poster Contributions

Session #1182

Non Invasive Imaging: MR Mapping and Blood Biomarkers

Sunday, April 3, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

221 - Relationship of Inflammatory Markers With Myocardial and Microvascular Injury in Reperfused ST- Elevation Myocardial Infarction
Martin Reindl, Sebastian Reinstadler, Hans-Josef Feistritz, Gert Klug, Agnes Mayr, Wolfgang-Michael Franz, Bernhard Metzler, Medical University of Innsbruck, Innsbruck, Austria

222 - Blood Biomarkers to Predict Magnetic Resonance Imaging Infarct Size, Left Ventricular Ejection Fraction and Mortality After ST-Elevation Myocardial Infarction
Minke Hartman, Ruben Eppinga, Pieter-Jan Vlaar, Chris Lexis, Erik Lipsic, Joost Haec, Dirk van Veldhuisen, Iwan Van Der Horst, Pim van der Harst, University Medical Center Groningen, Groningen, The Netherlands

223 - Determinants of Vascular Inflammation by 18-Fluorodeoxyglucose PET/MRI: Findings From the Psoriasis, Atherosclerosis and Cardiometabolic Disease Initiative

Nehal N. Mehta, Mohammad Tarek Kabbany, Mark Ahlman, Justin Rodante, Joseph Lerman, Tsion Abera, Joanna Silverman, Tarek Aridi, Asha Dahiya, David Bluemke, Martin Playford, Aditya Joshi, NHLBI, NIH, Bethesda, MD, USA

224 - Diagnostic Comparison of Cardiac Magnetic Resonance With Endo Myocardial Biopsy in Subjects With Dilated Cardiomyopathy: A Segment-by-Segment Analysis

Hiroyuki Takaoka, Nobusada Funabashi, Koya Ozawa, Takashi Nakayama, Marehiko Ueda, Yoshihide Fujimoto, Takashi Kishimoto, Satoshi Ota, Yukio Nakatani, Yoshio Kobayashi, Chiba University, Chiba, Japan

225 - Initial Cardiac Diagnostic Testing: A Radiation Perspective With Implications for Women

Julianne Matthews, Nicholas Boniface, Brandon Mikolich, J. Ronald Mikolich, Northeast Ohio Medical University (NEOMED), Rootstown, OH, USA, Sharon Regional Health System, Sharon, PA, USA

226 - Remote Myocardial Tissue Changes After Acute Myocardial Infarction and Its Role in Cardiac Remodeling: A CMR T1-Mapping Study

Stefan Biesbroek, Raquel Amier, Lourens Robbers, Paul Teunissen, Aernout Beek, Albert van Rossum, Mark Hofman, Niels Van Royen, Robin Nijveldt, VU University Medical Center, Amsterdam, The Netherlands

228 - Native T1 Mapping Supports Pathogenesis of Left Ventricular Apical Sparing in Cardiac Amyloidosis

Kunal D. Patel, Brett Sperry, Dermot Phelan, Mazen Hanna, Amr Barakaat, Zoran Popovic, Deborah Kwon, Christine Jellis, Cleveland Clinic, Cleveland, OH, USA

Non Invasive Imaging - Poster Contributions

Session #1183

Emerging Applications of Echocardiography: Part I

Sunday, April 3, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

229 - Right Atrial Size and Function Responds to Exercise in Parallel to the Degree of Effort: The Health eHeart Study

Arjun Sinha, Dwight Bibby, Qizhi Fang, Nelson Schiller, Meriam Astrom Aneq, University of California at San Francisco, San Francisco, CA, USA

230 - Clinical Characteristics and Determinants of Exercise-Induced Pulmonary Hypertension in Patients With Preserved Left Ventricular Ejection Fraction

A Young Lim, Suyeon Lee, Juwon Kim, Chunghun Kim, Sung-Ji Park, Jin-Oh Choi, Sang-Chol Lee, Seung Woo Park, Samsung Medical Center, Seoul, South Korea

231 - Echocardiographic Assessment of Calcific Mitral Stenosis Overestimates Severity Compared to Rheumatic Mitral Stenosis

Kenta Nakamura, Sammy Elmariah, Eugene Pomerantsev, Marcia Leavitt, Ignacio Inglessis, Igor Palacios, Jonathan Passeri, Massachusetts General Hospital, Boston, MA, USA

232 - Mitral Valve Replacement Impairs Left Ventricular Blood Flow

Koichi Akiyama, Keiichi Itatani, Mao Kinoshita, Masaru Shimizu, Saeko Hamaoka, Hideya Kato, Yoshifumi Naito, Yasufumi Nakajima, Satoshi Numata, Toshiki Mizobe, Hltoshi Yaku, Teiji Sawa, Kyoto Prefectural University of medicine, Kyoto city, Japan



233 - LVOT VTI Outperforms Ejection Fraction and Doppler-Derived Cardiac Output for Predicting Outcomes in a Select Advanced Heart Failure Cohort
Christina Tan, Ajay Srivastava, David Rubenson, Michael Smith, Rajeev Mohan, Dan Meyer, Sam Baradaran, J. Heywood, Scripps Clinic, La Jolla, CA, USA

234 - Prolapse Volume to Prolapse Height Ratio for Differentiating Barlow's Disease From Fibroelastic Deficiency
Nobuyuki Kagiyama, Hayashida Akihiro, Misako Toki, Takao Morikawa, Tomonori Miki, Yasuhiko Kamata, Minako Ohara, Atsushi Hirohata, Keizo Yamamoto, Kiyoshi Yoshida, The Sakakibara Heart Institute of Okayama, Okayama, Japan

235 - Left Atrial Strain an Early Marker of Future Adverse Cardiovascular Events in Chronic Kidney Disease
Krishna Kadappu, Lawrence Cai, Wei Xuan, John French, Liza Thomas, University of New South Wales, Liverpool, Australia, University of Western Sydney, Campbelltown, Australia

236 - Association of Left Ventricular Mass With Systolic Deformation and LV Diastolic Dysfunction: Effect of Differences in Stage A Heart Failure Etiology
Ying Wang, Hong Yang, Mark Nolan, Kazuaki Negishi, Thomas Marwick, Menzies Institute for Medical Research, Hobart, Australia

237 - Does Echo Equipment Vintage Reflect Commitment to Quality? Assessment by IAC Accreditation Status
Saurabh Malhotra, Mary Beth Farrell, William Katz, Prem Soman, University at Buffalo, Buffalo, NY, USA, University of Pittsburgh, Pittsburgh, PA, USA

238 - Transesophageal Echocardiography Offers No Incremental Therapeutic Value to a Negative Transthoracic Echocardiogram in Cryptogenic Cerebrovascular Accident
Mark A. Navarro, Manmeet Singh, Arang Samim, Chandra Katikireddy, University of San Francisco, Fresno, Fresno, CA, USA

239 - Quantification of Changes in 3-D Regurgitant Fraction and Left Ventricular Stroke Volume Immediately After Surgical Mitral Valve Repair for Degenerative Mitral Valve Disease Using Automated Real-Time Volume Color Flow Doppler Trans-Esophageal Echocardiography
Shizhen Liu, Naveen Rajpurohit, William Whitley, John Meisinger, Venkateshwar Polsani, Hassan Sayegh, Xiao Zhou, Helene Houle, Randolph Martin, Federico Milla, Mani Vannan, Piedmont Heart Institute, Atlanta, GA, USA

241 - Right Ventricular (RV) Linear Dimensions on Echocardiography (Echo) Are Reliable Indices of Cardiac Magnetic Resonance (CMR) Quantified Chamber Remodeling: A Multimodality Validation Study
Jiwon Kim, Aparna Srinivasan, Tracy Paul, Alexi Geevarghese, David M. McQueen, Charles S. Peskin, Meenakshi Rozenstrauch, Anna Wysocka, Noel C.F. Codella, Richard Devereux, Jonathan Weinsaft, Weill Cornell Medical College, New York, NY, USA

242 - Prognostic Value of Right Atrial 2-Dimensional Speckle Tracking Echocardiography in Clinical and Hemodynamic Evaluation of Patients With Pulmonary Arterial Hypertension Treated With Specific Therapy
Allia Giubertoni, Lorena Ferrarotti, Cristina Piccinino, Jacopo Zanaboni, Daniele Sola, Paolo Marino, A.O.U. Maggiore della Carita', Novara, Italy

243 - Disagreement Between the World Congress of Gastroenterology Guidelines and the American Society of Echocardiography Guidelines for the Diagnosis of Diastolic Dysfunction Among Patients With Liver Failure
Niyada Naksuk, Thoetchai Peeraphatdit, Kyle Klarich, Mayo Clinic, Rochester, MN, USA

244 - Thoracic Aortic Dilatation Is a Hereditary Disease: A Large Cross Sectional Imaging Study
Mirza Mujadil Ahmad, Khawaja Afzal Ammar, Mirza Nubair Ahmad, Rayan Yousefzai, Janardhan Krishnaswamy, Bijoy K. Khandheria, Renuka Jain, A. Jamil Tajik, Aurora Sinai/Aurora St. Luke's Medical Centers, Milwaukee, WI, USA

245 - Incremental Benefit of Transthoracic Doppler Echocardiography Over Computed Tomography Angiography for Predicting Proximal Left Coronary Artery Lesions
Kayo Takahashi, Makoto Saito, Toru Morofuji, Hiroe Aisu, Shinji Inaba, Takumi Sumimoto, Kitaishikai Hospital, Ozu, Japan

246 - A Global Echocardiography-Based Cardiac Calcification Score Predicts the Presence and Severity of CAD
Lucius A. Howell, Siyuan Sheng, Melissa Caughey, Michael Yeung, Michael Sola, John Vavalle, University of North Carolina, Chapel Hill, NC, USA

247 - Preclinical Cardiac Disease in Adults With Nonalcoholic Fatty Liver Disease
Jasbir Makker, Sridhar Chilimuri, Kishore Kumar, Mohammad Alshelleh, Jonathan Bella, Bronx Lebanon Hospital Center, Bronx, NY, USA

248 - Assessment of Left Ventricular Global Systolic Function by Tissue Mitral Annular Displacement: Comparison With Global Longitudinal Strain
Katsuomi Iwakura, Atsunori Okamura, Yasushi Koyama, Koichi Inoue, Hiroyuki Nagai, Yuko Toyoshima, Koji Tanaka, Takafumi Oka, Mutsumi Iwamoto, Kenshi Fujii, Sakurabashi-Watanabe Hospital, Osaka, Japan

249 - Prognostic Value of Left Ventricular Hypertrophy in Subjects From the General Population With Decreased Glomerular Filtration Rate
Nino E. Landler, Jan Jensen, Tor Biering-Sorensen, Gentofte University Hospital, Hellerup, Denmark

250 - Noninvasive Systemic Vascular Resistance and Cardiovascular Outcomes in the Community: The Framingham Heart Study
Chete Eze-Nliam, Meredith Stevenson, David McManus, Susan Cheng, Vasan Ramachandran, Nelson Schiller, Nisha Parikh, Connie Tsao, University of California, San Francisco, CA, USA, Framingham Heart Study, Boston University, Boston, MA, USA

263 - Assessment of Myocardial Dysfunction by Layer-Specific Strain in Obstructive Sleep Apnea Patients
Dian Wang, Genshan Ma, Yan Li, Xiaoyan Wang, Jiandong Ding, Qiangqiang Lu, Jiguang Wang, Naifeng Liu, Department of Cardiology, Zhongda Hospital, Southeast University School of Medicine, Nanjing, People's Republic of China, Institute of Hypertension Ruijing Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, People's Republic of China

264 - Early Versus Conventional Atropine Use in Dobutamine Stress Testing: A Meta Analysis
Muhammad Soubhi Azzouz, Toufik Mahfood Haddad, Alok Saurav, Aiman Smer, Mohamed Ayan, Venkata Alla, Michael White, Creighton University, Omaha, NE, USA

265 - Metabolic Syndrome Is Associated With Preclinical Alterations in Myocardial Microstructure
Youssef Rahban, Harpal Sandhu, Pranoti Hiremath, Fuzhong Qin, Donohue Courtney, Deborah Siwik, Susan Cheng, Wilson Colucci, Jennifer E. Ho, Boston University Medical Center, Boston, MA, USA

266 - Predictors of Long-Term Clinical Outcome in Patients With Mild Diastolic Dysfunction on Echo
Mikhail Narezkin, Kevin Shah, Anya Narezkina, Amin Sabet, Daniel Blanchard, Anthony DeMaria, University of California San Diego, La Jolla, CA, USA



267 - Cardiac Structure and Function and Frailty in the Oldest Old
David W. Leibowitz, Jeremy Jacobs, Dan Gilon, Irit Stessman-Lande, Eliana Ein Mor, Jochanan Stessman, Hadassah-Hebrew University Medical Center, Jerusalem, Israel

268 - Aortic Root Dilatation in Mucopolysaccharidosis
Meena Bolourchi, Yanjun Chen, Pierangelo Renella, Danh Nguyen, Raymond Wang, Children's Hospital of Orange County, Orange, CA, USA

269 - Three-Dimensional Echocardiography Assessment of the Systolic Variation of Effective Regurgitant Orifice Area in Patients With Functional Tricuspid Regurgitation: Implications for Quantification
Denisa Muraru, Patrizia Aruta, Csaba Jenei, Marcelo Miglioranza Haertel, Giacomo Cavalli, Gabriella Romeo, Sabino Iliceto, Luigi Badano, Dept of Cardiac, Thoracic and Vascular Sciences, University of Padua, Padua, Italy

270 - Left Ventricular Diastolic Stiffness in Patients After Myocardial Infarction
Feiqiong Huang, Junmei Zhang, Liang Zhong, Ru San Tan, National Heart Centre Singapore, Singapore, Singapore

Non Invasive Imaging - Poster Contributions

Session #1184

Non Invasive Imaging: Non Contrast CT

Sunday, April 3, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

251 - Prevalence and Distribution of Coronary Artery Calcium Score Among Asymptomatic Korean and United States Adults: A Propensity-Matched Comparative Analysis
Donghee Han, Briain O Hartaigh, Heidi Gransar, Ji Hyun Lee, Hyo Eun Park, Su-Yeon Choi, Jidong Sung, Tracy Callister, James Min, Hyuk-Jae Chang, Yonsei Cardiovascular Center, Seoul, South Korea, New York-Presbyterian Hospital and the Weill Cornell Medicine, New York, NY, USA

252 - Comparison of the Coronary Artery Calcium Score for Predicting All-Cause Mortality in an Asian and Non-Asian Cohort
Donghee Han, Briain O Hartaigh, Ji Hyun Lee, Heidi Gransar, Hyo Eun Park, Su-Yeon Choi, Jidong Sung, Tracy Callister, James Min, Hyuk-Jae Chang, Yonsei Cardiovascular Center, Seoul, South Korea

253 - Coronary Artery Calcium Score Amongst Obstructive Sleep Apnea Patients
Phong Teck Lee, Lohendran Baskaran, John Allen, Weng Kit Lye, Fk Cheah, Felix Keng, Thun How Ong, Song Tar Toh, Swee Yaw Tan, National Heart Centre Singapore, Singapore, Singapore

254 - Aortic Calcification Is Associated With Exercise Blood Pressure Response and Outcomes in Elderly Individuals Without Obstructive Coronary Artery Disease
In-Jeong Cho, Hyuk-Jae Chang, Chi Young Shim, Geu-Ru Hong, Jung-Hyun Choi, Namsik Chung, Severance Cardiovascular Hospital, Seoul, South Korea, Pusan National University Hospital, Pusan, South Korea

255 - Value of Coronary Artery Calcium Score as a Triaging Tool in Acute Chest Pain Patients Without Known Coronary Artery Disease in Emergency Department: Systematic Review and Meta-Analysis
Kongkiat Chaikriangkraj, Patompong Ungprasert, Hye Yeon Jhun, Faisal Nabi, John Mahmarian, Su Min Chang, University of Iowa Hospital and Clinics, Iowa City, IA, USA, Houston Methodist DeBakey Heart & Vascular Center, Houston, TX, USA

256 - Digital Mammography: Screening for Coronary Artery Disease?
Harvey S. Hecht, Laurie Margolies, Mary Salvatore, Sean Kotkin, Rowena Yip, Usman Baber, Vivian Bishay, Jagat Narula, David Yankelevitz, Claudia Henschke, Icahn School of Medicine at Mount Sinai, New York, NY, USA

257 - Coronary Calcium Scans and Radiation Exposure in the Society for Heart Attack Prevention and Eradication Cohort
Amish Patel, Matthew Budoff, Jeffrey J. Fine, Los Angeles Biomedical Institute at Harbor-UCLA, Torrance, CA, USA, Society for Heart Attack Prevention and Eradication, Houston, TX, USA

258 - Identifying High-Risk Asymptomatic Individuals Using Coronary Artery Calcium Scan in the Society for Heart Attack Prevention and Eradication Cohort
Amish Patel, Matthew Budoff, Jeffrey Fine, Los Angeles Biomedical Institute at Harbor-UCLA, Torrance, CA, USA, Society for Heart Attack Prevention and Eradication, Houston, TX, USA

259 - Coronary Artery Calcium Burden Difference in Two Asymptomatic Hispanic Populations
Erasmio De La Pena-Almaguer, Cesar Ivan Avila, Alejandro Trevino, Luis Pérez, Neel Ravela, Indra De La Cruz-Isidro, Yoezer Flores-Sayaveedra, Murali Pendela, Edward Ramos-Santiago, Mohammad Badii, Su Min Chang, Hospital Zambrano-Hellión, Tecnológico de Monterrey, Monterrey, Mexico, Houston Methodist Hospital, Houston, TX, USA

260 - A Systematic Review and Meta-Analysis: Prevalence of Coronary Plaque High-Risk Features (Low attenuation, Enlarged diameter or positive remodeling, Napkin ring, and Spotty calcification (LENS) in Acute Coronary Syndrome as Assessed by Coronary Computed Tomographic Angiography (CTA)

Muhammad A. Latif, Ricardo Cury, Maham Akhlaq, Emir Veledar, Juan C. Batlle, Muhammad Aziz, Rehan Malik, Adnan Younus, Imran Haider, Shozab Ali, Warren Janowitz, Arthur Agatston, Khurram Nasir, Miami Cardiac & Vascular Institute, Baptist Health South Florida, Miami, FL, USA, Center for Healthcare Advancement & Outcomes, Baptist Health South Florida, Miami, FL, USA

261 - Thresholds for Abdominal Aortic Calcium That Predict Cardiovascular Disease Events in the Framingham Heart Study
Sumbal Ashraf Janjua, Joseph Massaro, Michael Chuang, Ralph D'Agostino, Udo Hoffmann, Christopher O'Donnell, Massachusetts General Hospital, Boston, MA, USA

262 - Optimal Cutoff Value of Annual Coronary Artery Calcium Score Progression by Serial Coronary Calcium Scan Predicting Major Adverse Cardiovascular Events in Asymptomatic Korean Population
Hyung Bok Park, Chae-Wan Lim, Jae-Hyuk Lee, Hyun-Jin Kim, Yong-Sung Seo, Division of Cardiology, Cardiovascular Center, Myongji Hospital, Seonam University, College of Medic, Goyang, South Korea

Non Invasive Imaging - Moderated Poster Contributions

Session #1199M

Advances in Echocardiography

Sunday, April 3, 2016, 9:45 a.m. - 10:30 a.m.

Non Invasive Imaging Moderated Poster Theater, Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

9:45 a.m.
Rheumatic Heart Disease Screening in Schools Through Portable Echocardiography in Brazil: Data From the PROVAV Study
Bruno Ramos Nascimento, Andrea Beaton, Maria do Carmo Nunes, Adriana Diamantino, Kaciane K. Oliveira, Cassio M. Oliveira, Vitoria M. Rezende, Eduardo L. Lopes, Amanda O. Lauer, Luise C. Barros, Michelle C. Galbas, Lindsay Perlman, Antonio Ribeiro, Craig Sable, Hospital das Clinicas da Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, Childrens National Health System, Washington, DC, USA

9:55 a.m.
Question and Answer



10:00 a.m.

An Echocardiographic Risk Score for Prediction of Mortality in Patients With Pulmonary Hypertension

Rishin Handa, Srinivas Vunnam, Masataka Sugahara, Akiko Goda, Omar Batal, Michael Mathier, John Gorcsan, University of Pittsburgh Medical Centre, Pittsburgh, PA, USA

10:10 a.m.

Question and Answer

10:15 a.m.

Recently-Acquired Cardiac Ultrasound Skills Are Rapidly Lost When Not Used: Implications for Competency in Physician Imaging

Sean Sliman, Stanley Amundson, David Shaw, James N. Phan, Jill Waalen, Bruce Kimura, Scripps Mercy Hospital, San Diego, CA, USA

10:25 a.m.

Question and Answer

ACC Poster Moderator: Julius M. Gardin

ACC Poster Moderator: Victor Mor-Avi

Non Invasive Imaging - International Session

Session #512

Structural Heart Disease: International Perspectives From the Lebanese Cardiac Society, Mexican Society of Cardiology, and American College of Cardiology

Sunday, April 3, 2016, 10:45 a.m. - 12:15 p.m.

Room N427cd

CME Hours: 1.5 /CNE Hours: 0

Co-Chair: Robert C. Hendel

Co-Chair: Erick Alexanderson Rosas.F., Mexico

Co-Chair: Ghassan Kiwan

10:45 a.m.

Introduction to Session

Robert C. Hendel

10:50 a.m.

Criteria for Percutaneous Aortic Valve Replacement (PAVR)

Jorge E. Cossio-Aranda
Mexico, D.F., Mexico

11:01 a.m.

Use of Non-Invasive Imaging in Percutaneous Aortic Valve Replacement (PAVR)

Aloha Meave
Mexico, D.F., Mexico

11:12 a.m.

Echo for Tricuspid Valve Evaluation: The Lebanese Experience

Zaina Kadri
Beirut, Lebanon

11:23 a.m.

Role of 3D Imaging in TAVI: The Lebanese Experience

M. Samir A. Arnaut
Beirut, Lebanon

11:34 a.m.

MDCT for Transcatheter Mitral Valve Replacement

Jonathon Leipsic
Vancouver, Canada

11:45 a.m.

Discussion

Non Invasive Imaging - Scientific Session

Session #674

Advanced Echocardiography Techniques in Current Practice

Sunday, April 3, 2016, 10:45 a.m. - 12:15 p.m.

Room S503

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Jayashri Aragam

Co-Chair: Kiyoshi Yoshida

10:45 a.m.

Adding 3D to Valve Assessment: When Less Is More, and When More Is More
Alexandra Goncalves

11:03 a.m.

When Is the Right Time for Real-Time 3D Echo in Chamber Assessment?

Wendy Tsang
Chicago, IL

11:21 a.m.

Reducing Stress Over Left Ventricular Strain Assessment: Standardization for Practical Application

Jens-Uwe Voigt

11:39 a.m.

Myocardial Strain Imaging Beyond the Left Ventricle

Partho P. Sengupta
New York, NY

11:57 a.m.

Achieving Clarity With Contrast: State-of-the-Art Techniques in Practice

Thomas Richard Porter
Omaha, NE

Non Invasive Imaging - Scientific Session

Session #675

Imaging the Right Ventricle: Which Modality to Use?

Sunday, April 3, 2016, 10:45 a.m. - 12:15 p.m.

Room S504

CME Hours: 1.5 /CNE Hours: 0

Co-Chair: Allan L. Klein

Co-Chair: A. Jamil Tajik

10:45 a.m.

Morphology and Function of the Normal Right Ventricle

Robert A. Levine

11:03 a.m.

Imaging the Right Ventricle in Arrhythmogenic RV Cardiomyopathy

David A. Bluemke
Bethesda, MD

11:21 a.m.

Imaging the Right Heart in Patients With Congenital Heart Disease

Andrew N. Redington
Toronto, Canada

11:39 a.m.

Imaging the Right Ventricle in Patients With LVAD

Scott C. Silvestry
Saint Louis, MO

11:57 a.m.

Imaging the Right Ventricle in Patients With CAD

Francois Haddad
Palo Alto, CA



Non Invasive Imaging - Scientific Session

Session #688

Practical Considerations in Nuclear Cardiology

Sunday, April 3, 2016, 12:30 p.m. - 1:45 p.m.

Room S503

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Brian G. Abbott

Co-Chair: Mouaz H. Al-Mallah Arabia

12:30 p.m.

Promoting Appropriate Use

Robert C. Hendel

12:48 p.m.

Patient Centered Imaging

John J. Mahmarian

Houston, TX

1:07 p.m.

Radiation: Risk versus benefit

Ronald G. Schwartz

Rochester, NY

1:26 p.m.

special Populations: Diabetes, Renal Failure and Women

Regina S. Druz

Manhasset, NY

Non Invasive Imaging - Scientific Session

Session #689

Multimodality Imaging in Cardiomyopathy

Sunday, April 3, 2016, 12:30 p.m. - 1:45 p.m.

Room S504

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Jonathan R. Lindner

Co-Chair: Kim Allan Williams, Sr.

Chicago, IL

12:30 p.m.

Pathophysiology of Ischemic Cardiomyopathy. Implications for Diagnosis

Prem Soman

12:49 p.m.

Fibrosis Imaging in Cardiomyopathy

Erik B. Schelbert

1:07 p.m.

Infiltrative Cardiomyopathies

Sharmila Dorbala

Boston, MA

1:25 p.m.

Diagnosis and Risk Stratification in Hypertrophic Cardiomyopathy

Sanjay Prasad

London, England, United Kingdom

Non Invasive Imaging - Maintenance of Certification

Session #818

Study Session for Maintenance of Certification: ACC Module 1:

Echocardiography

Sunday, April 3, 2016, 12:30 p.m. - 3 p.m.

Room S105cd

CME Hours: 2.5 /CNE Hours: 0

Chair: Peter G. Hagan

MOC Faculty: Stephen H. Little

MOC Faculty: Michael Chen

Non Invasive Imaging - Moderated Poster Contributions

Session #1210M

Diagnosis of CAD: Insights From Non Invasive Imaging

Sunday, April 3, 2016, 12:30 p.m. - 1:45 p.m.

Non Invasive Imaging Moderated Poster Theater, Poster Area, South

Hall A1

CME Hours: 1.25 /CNE Hours: 1.25

12:30 p.m.

Is Exercise Stress Echocardiography Useful in Patients With Suspected Obstructive Coronary Artery Disease Who Have Resting Left Bundle Branch Block?

Bo Xu, Laura Dobson, Philip Mottram, Stuart Moir, MonashHeart, Monash Medical Centre, Melbourne, Australia

12:40 p.m.

Question and Answer

12:45 p.m.

Validation and Comparison of a History-Based Risk Score for Diagnosis of Obstructive Coronary Artery Disease Amongst a Randomized, Controlled Cohort: The SCOT-HEART Trial

Lohendran Baskaran, Ibrahim Danad, Heidi Gransar, Fay Lin, David Newby, James Min, Weill Cornell Medical College, New York, NY, USA

12:55 p.m.

Question and Answer

1:00 p.m.

Computed Tomography Coronary Angiography Versus Stress Cardiac Magnetic Resonance for the Management of Symptomatic Revascularized Patients: A Cost Effectiveness Study (STRATEGY Study)

Gianluca Pontone, Daniele Andreini, Marco Guglielmo, Cristina Rota, Saima Mushtaq, Andrea Baggiano, Virginia Beltrama, Anna Solbiati, Andrea Igoren Guaricci, Mauro Pepi, Centro Cardiologico Monzino, Milan, Italy

1:10 p.m.

Question and Answer

1:15 p.m.

Out-Patient Chest Pain: Economic Impact of Initial Diagnostic Testing Choice

Nicholas Boniface, Julianne Matthews, Brandon Mikolich, Daniel Morgenstern, John Lisko, J. Ronald Mikolich, Sharon Regional Health System, Sharon, PA, USA, Northeast Ohio Medical University, Rootstown, OH, USA

1:25 p.m.

Question and Answer

1:30 p.m.

Clinical Impact of Outpatient Stress Cardiac Magnetic Resonance (CMR) Imaging Is Independent of Appropriate Use Criteria

Sloane Asha McGraw, Omer Mirza, Michael Bauml, Vibhav Rangarajan, Afshin Farzaneh-Far, University of Illinois, Chicago, IL, USA, Duke University, Durham, NC, USA



1:40 p.m.
Question and Answer

ACC Poster Moderator: Joao A. C. Lima
ACC Poster Moderator: Sofia Shames

Non Invasive Imaging - Poster Contributions

Session #1230

Cardiac CT Angiography: Prognosis, Plaque and Perfusion

Sunday, April 3, 2016, 1:30 p.m. - 4:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

221 - A Radiation- and Contrast-Sparing Protocol for Coronary Computed Tomography Angiography: First Clinical Experience on a Latest-Generation 256-Slice Scanner

Dominik C. Benz, Christoph Gräni, Beatrice Hirt-Moch, Fran Mikulicic, Jan Vontobel, Tobias Fuchs, Julia Stehli, Olivier Clerc, Mathias Possner, Aju Pazhenkottil, Oliver Gaemperli, Ronny Buechel, Philipp Kaufmann, University Hospital Zurich, Zurich, Switzerland

222 - Quantitative Comparison of Iterative Reconstruction Algorithms in Ultra-Low-Dose Coronary CT Angiography

Dominik C. Benz, Tobias Fuchs, Christoph Grani, Beatrice Hirt-Moch, Fran Mikulicic, Jan Vontobel, Julia Stehli, Olivier F. Clerc, Mathias Possner, Ennio Mueller, Aju Pazhenkottil, Oliver Gaemperli, Ronny Buechel, Philipp Kaufmann, University Hospital Zurich, Zurich, Switzerland

223 - CT Derived Atherosclerotic Plaque Burden and Morphology Are Associated With Impaired Myocardial Blood Flow Using [15O]H₂O PET Independent of Luminal Obstruction

Roel Driessen, Wijnand Stuijtzand, Ibrahim Danad, Pieter Raijmakers, James Min, Jonathon Leipsic, Marc Huisman, Adriaan Lammertsma, Albert van Rossum, Niels Van Royen, Paul Knaapen, VU University Medical Center, Amsterdam, The Netherlands

224 - Clinical Utility of Coronary Computed Tomography Angiography to Evaluate Patients With Mildly Elevated Troponins Without Clinically Manifest Acute Coronary Syndrome

Gregory Papadopoulos, Sujit Vakkalanka, Keenan Adib, Umesh Sharma, Brian Page, University at Buffalo, Buffalo, NY, USA

225 - Estimating Effective Dose of Radiation From Pediatric Cardiac Computed Tomography Angiography Using a 64-Slice Scanner: New Conversion Factors Relating Dose-Length Product to Effective Dose

Sigal Trattner, Anjali Chelliah, Carrie B. Ruzal-Shapiro, Yanping Xu, Sachin Jambawalikar, Maxwell Amurao, Udo Hoffmann, David J. Brenner, Andrew Jeffrey Einstein, Columbia University, New York, NY, USA

226 - Better Estimating Radiation Effective Dose From Cardiac Computed Tomography (CT): A Comprehensive Examination of the Relationship Between Effective Dose and Dose-Length Product

Sigal Trattner, Sandra Halliburton, Carla Thompson, Anjali Chelliah, Yanping Xu, Sachin Jambawalikar, M. Robert Peters, Munir Ghesani, James Jang, Udo Hoffmann, David J. Brenner, Andrew Jeffrey Einstein, Columbia University, New York, NY, USA

227 - Plaque Disruption by Coronary CTA, Not Apparent by Invasive Coronary Angiography

A Neil Bilolikar, Ryan Madder, James Goldstein, Beaumont Health, Royal Oak, MI, USA, Spectrum Health, Grand Rapids, MI, USA

228 - Short Term and Long Term Follow Up of Coronary Artery Bypass Graft(cabg) Patients by 256-Slice Multi-Detector Ct Angiography: Assessment of Patency and Predictors of Graft Occlusion

Zahra Azizi, Alireza Alizadeh Ghavidel, Ali Mohammadzadeh, Rohollah Salehian, Iran University of Medical Sciences, Tehran, Iran (Islamic Republic of)

229 - Usefulness of Pericoronary Fat Ratio as a Strong Predictor for Coronary Plaque Vulnerability Compared to Epicardial Adipose Tissue Measured by Coronary Computed Tomography Angiography

Ryo Okubo, Mikihito Toda, Ippei Watanabe, Takayuki Yabe, Hideo Amano, Rine Nakanishi, Ikeda Takanori, Department of Cardiovascular Medicine, Toho University Faculty of Medicine, Tokyo, Japan

230 - An Age and Sex-Specific Peripheral Blood Gene Expression Score Is Associated With Atherosclerotic Plaque Volume by Cardiac CT-Angiography: Insights From PREDICT and COMPASS Studies

Sina Rahmani, Negin Nezarat, Rine Nakanishi, Indre Ceponiene, Suguru Matsumoto, Mitsuru Kanisawa, Anas Alani, Michael Kim, Reshma Sabnani, Michael Zapien, Mark Monane, Steven Rosenberg, James Wingrove, Matthew Budoff, Los Angeles Biomedical Research Institute, Torrance, CA, USA

231 - The Impact of Diabetes on Coronary Plaque Progression Assessed by Novel Semi-Automated Quantitative Plaque Software on Coronary Computed Tomographic Angiography

Rine Nakanishi, Kendall Kissel, Yanting Luo, Yeseina Ortega, Shirraj S. Susaria, Zeus Fernandez, Nichell Megowan, Negin Nezarat, Sina Rahmani, Mitsuru Kanisawa, Indre Ceponiene, Alexander Broersen, Pieter Kitslaar, Jeby Abraham, Christopher Dailing, Matthew Budoff, Los Angeles BioMedical Research Institute at Harbor UCLA Medical Center, Torrance, CA, USA

232 - Long-Term Prognostic Value of Cardiac Hybrid Imaging Integrating Single-Photon-Emission Computed Tomography With Coronary Computed Tomography Angiography

Aju Pazhenkottil, Dominik Benz, Christoph Gräni, Fran Mikulicic, Beatrice Hirt Moch, Michael Madsen, Jan Vontobel, Oliver Gaemperli, Ronny Buechel, Thomas F. Lüscher, Philipp A. Kaufmann, Cardiac imaging, University Hospital Zürich, Zürich, Switzerland

233 - Cardiac Computed Tomographic Angiography in the Assessment of Low Risk Patients: An Updated Meta-Analysis

Abel Casso Dominguez, Georges El-Hayek, Elizabeth Contreras, Alexandre Benjo, Edgar Argulian, Alan Rozanski, Mount Sinai St. Luke's Roosevelt, New York, NY, USA

234 - Pericardial Cysts: Do They Grow Over Time?

Sager Alkharabsheh, Ayman Ayache, Shadi Al Halabi, Arnav Kumar, Jamal Mahar, Neha Gupta, James Gentry, Allan Klein, Cleveland Clinic Foundation, Cleveland, OH, USA

235 - Left Ventricular Assist Device Evaluation Using Cardiac CT: Two-Year Experience at a High-Volume Center

William Guy Weigold, Valerie Verdun, Rebecca Torguson, Georgetown University School of Medicine, Washington, DC, USA, MedStar Heart and Vascular Institute, Washington, DC, USA

237 - Aortic Vascular Inflammation by 18-FDG PET/MRI Is Related to Coronary Plaque Burden by Quantitative Coronary CT Angiography in Psoriasis

Aditya A. Joshi, Mohammad Tarek Kabbany, Mark Ahlman, Joseph Lerman, TSION Aberra, Balaji Natarajan, Taufiq Salahuddin, Justin Rodante, Martin Playford, Marcus Chen, David Bluemke, Nehal Mehta, NHLBI, NIH, Bethesda, MD, USA

238 - Impact of Wall Shear Stress and Axial Plaque Stress on Coronary Plaque Initiation and Progression

Takayoshi Toba, Gilwoo Choi, Hyun Jin Kim, Arjun Roy, Tran Nguyen, Michiel Schaap, Leo Grady, Kenzo Uzu, Shumpei Mori, Tomofumi Takaya, Toshiro Shinke, Bon-Kwon Koo, Charles Taylor, Hiromasa Otake, Kobe University Graduate School of Medicine, Kobe, Japan, Heartflow Inc., Redwood City, CA, USA



239 - Serial Computed Tomography Pulmonary Arterial Measurements Predict Survival in Pulmonary Hypertension Patients
Joseph Negusej, Rajeev Malhotra, Jackie Szymonifka, Qing Zhou, Zachary Lavender, Aaron Waxman, Marc Semigran, Quynh Truong, New York-Presbyterian Hospital and Weill Cornell Medical College, New York, NY, USA

240 - Computed Tomography Angiography for Assessment of Anatomy Through All Stages of Single Ventricle Palliation
B. Kelly Han, Marnie Taylor, Charles Baker, Katharine Grant, John Lesser, David Overman, Minneapolis Heart Institute Foundation, Minneapolis, MN, USA, The Children's Heart Clinic at the Children's Hospitals and Clinics of Minnesota, Minneapolis, MN, USA

241 - Diagnostic Accuracy of First-Pass CT-Myocardial Perfusion Imaging Without Stress Compared With Coronary CT Angiography Alone, With Fractional Flow Reserve as the Reference Standard
Toru Miyoshi, Kazuhiro Osawa, Hiroshi Ito, Okayama University Hospital, Okayama, Japan

242 - Does Calcium Density Play a Role Over and Above Plaque Volume in Determining Ischemia?
Lohendran Baskaran, Fay Lin, Heidi Gransar, James Min, Weill Cornell Medical College, New York, NY, USA

243 - Quantitative Atherosclerotic Plaque Characterization by Novel Selective Catheter-Directed Coronary Computed Tomography Angiography: Comparison With Conventional Intravenous Coronary Computed Tomography Angiography
Hyung Bok Park, Youngtaek Hong, Ran Heo, Sanghoon Shin, Hyuk-Jae Chang, Yonsei-Cedars Sinai Integrative Cardiovascular Imaging Research Center, Seoul, South Korea

244 - Right Ventricular and Pulmonary Arterial Enlargement in Acute Chest Pain Patients With Higher Risk of Obstructive Sleep Apnea
Narasa Madam, Andres Carmona-Rubio, Zaid Said, Umesh Sharma, State University of New York at Buffalo, Buffalo, NY, USA

245 - Patients With HIV Have High-Risk Coronary Plaque on Screening CT Coronary Angiography and More Coronary Events, but Less Invasive Treatment Strategies
James Nadel, Eoin O'Dwyer, Sam Emmanuel, Justyn Huang, James Otton, Cameron Holloway, St. Vincent's Hospital, Sydney, Australia, Victor Chang Cardiac Research Institute, Sydney, Australia

246 - Medical Management of Non-Obstructive Coronary Artery Disease on Coronary CT Angiography: Insight From a Modern Emergency Department Clinical Registry
Nandini Meyersohn, Sumbal Janjua, Pedro Staziaki, Daniel Bittner, Richard Takx, Rory Weiner, Jason Wasfy, Udo Hoffmann, Brian Ghoshhajra, Massachusetts General Hospital, Boston, MA, USA

247 - Optimization and Reproducibility of 18F-Fluoride Positron Emission Tomography and Computed Tomography in Patients With Aortic Stenosis
Tania Pawade, Timothy R. Carlidge, David Newby, Marc Dweck, University of Edinburgh, Edinburgh, United Kingdom

248 - Differences in Atherosclerotic Burden Between South Asians and Caucasians With Type 2 Diabetes Mellitus and Comparable 10 Year Predicted Cardiovascular Risk
Sanjay Nandkoemar Gobardhan, Aukelien C. Dimitriu-Leen, Alexander R. van Rosendaal, Erik W. van Zwet, Martin Schaliq, Arthur Scholte, Leiden University Medical Center, Leiden, The Netherlands

263 - Assessment of Missing Links in Atherogenesis: Pilot Study of Great Apes and Humans
Randall C. Thompson, L. Wann, Navneet Narula, Jagat Narula, M Linda Sutherland, James Sutherland, Adel Allam, Christine France, Bruno Frohlich, Study Group Horus, St. Luke's Mid America Heart Institute, Kansas City, MO, USA, Smithsonian Institution, Washington, DC, USA

264 - Nonobstructive Left Main Coronary Artery Disease on Coronary CT Angiography and Risk for Myocardial Infarction
Joe Xie, Abhinav Goyal, Jonathon Leipsic, Briain O. Hartaigh, Daniel Berman, Matthew Budoff, Stephan Achenbach, Allison Dunning, Tracy Callister, Augustin DeLago, Hugo Marques, Ronen Rubinshtein, Mouaz H. Al-Mallah, Daniele Andreini, Filippo Cademartiri, Kavitha Chinnaiyan, Martin Hadamitzky, Gudrun Feuchtnr, Yong-Jin Kim, Philipp Kaufmann, Gianluca Pontone, Gilbert Raff, Todd Villines, James Min, Leslee Shaw, Emory University School of Medicine, Atlanta, GA, USA

265 - CT Angiographic Plaque Characteristics and Prediction of MACE According to Presence of Diabetes: The CONFIRM Registry
Maryam Balouch, Heidi Gransar, Daniel Berman, James Min, Shaista Malik, Nathan Wong, University of California Irvine, Orange, CA, USA, Cedars-Sinai Medical Center, Los Angeles, CA, USA

266 - A Simple Risk Score to Reduce Downstream Cardiovascular Testing in the Emergency Department After Serial Negative Troponins: Validation Using the ROMICAT II Cohort
Paul Cremer, Amgad Mentias, Serge Harb, Shaden Khalaf, Ellen Mayer Sabik, Venu Menon, Wael Jaber, Cleveland Clinic Foundation, Cleveland, OH, USA

267 - Efficacy of CT Scan-Measured Pulmonary Artery to Aorta Ratio in Detecting Pulmonary Hypertension: A Comparison to Echocardiography
Hiroataka Ieki, Nobutaka Ikeda, Hisao Hara, Yukio Hiroi, Sakakibara Heart Institute, Tokyo, Japan, National Center for Global Health and Medicine, Tokyo, Japan

268 - Pericardial Adipose Tissue as a More Useful Predicting Factor of New Incidences of Paroxysmal Atrial Fibrillation Than the Severity of Coronary Artery Disease
Kiyotaka Okura, Motoaki Hirazawa, Fukui-Ken Saiseikai Hospital, Fukui, Japan

269 - Correlation of Wall Shear Stress and Axial Plaque Stress Between Models Derived From CT and OCT Data
Gilwoo Choi, Kenzo Uzu, Takayoshi Toba, Hyun Jin Kim, Arjun Roy, Tran Nguyen, Leo Grady, Tomofumi Takaya, Shumpei Mori, Toshiro Shinke, Bon Kwon Koo, Charles Taylor, Hiromasa Otake, Kobe University Graduate School of Medicine, Kobe, Japan, HeartFlow, Inc., Redwood City, CA, USA

270 - Impact of Lesion Coronary Calcium Score on Outcomes Following Everolimus-Eluting Stent Implantation
Tatsuyuki Sato, Hiroshi Kadowaki, Nozomi Fuse, Taishi Okuno, Yu Sato, Kentaro Yasuhara, Furui Koichi, Nahoko Kato, Yu Horiuchi, Toshio Kinoshita, Satoru Kishi, Shuzou Tanimoto, Jiro Aoki, Kazuhiro Hara, Kengo Tanabe, Mitsui Memorial Hospital, Tokyo, Japan

Non Invasive Imaging - Poster Contributions

Session #1231

Emerging Applications of Echocardiography: Part II

Sunday, April 3, 2016, 1:30 p.m. - 4:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

249 - Decline in Mitral Annular Plane Systolic Excursion in Asymptomatic Patients With Aortic Valve Stenosis and Preserved Systolic Function Predicts the Clinical Need for Aortic Valve Intervention
Andrew Locke, Jason Matos, Randal Goldberg, Joshua E. Kiss, Kenneth Mukamal, Warren Manning, Beth Israel Deaconess Medical Center, Boston, MA, USA

250 - Image Based Evaluation of Right Ventricular Myocardial Strain Mechanics Using 4D and 2D Echocardiography
David J. Sahn, Alexandra Pidwerbecki, Karla Fuentes, Kacie Amacher, Meihua Zhu, Joanne Tran, Kim Dang, Evan Tracy, Ramya Ajjarapu, Muhammad Ashraf, Oregon Health & Science University, Portland, OR, USA



251 - Association of Central Aortic Stiffness and Neurohormonal Factors to Left Ventricular Mechanical Function in Hypertension: A Study With Two Dimensional Layer Specific Speckle Tracking Strain Imaging
Darae Kim, Chi Young Shim, Geu-Ru Hong, In Jeong Cho, Hyuk-Jae Chang, Jong-Won Ha, Namsik Chung, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, South Korea

252 - Dobutamine Stress Contrast Echo in Diabetic Patients: Changes in Prognostic Impact According to Appropriateness Criteria Indication
Ioannis Felekos, Constantina Aggeli, Athanasios Angelis, Konstantinos Toutouzias, Dimitris Tousoulis, 1st Cardiology Department, Hippokraton Hospital, Athens Medical School, Athens, Greece

253 - Age Differences in Electromechanical Properties of the Left Atrium Assessed With Advanced Echocardiography in Patients With No Structural Heart Disease
Rachid Abou, Melissa Leung, Tomaz Podlesnikar, Nina Ajmone Marsan, Victoria Delgado, Jeroen Bax, Leiden University Medical Centre, Leiden, The Netherlands

254 - Speckle-Tracking Echocardiography Predicts Cardiovascular Events After Kidney Transplant
Bradley Peltzer, Kana Fujikura, Nidhish Tiwari, Hye Gi Shim, Sanyog Shitole, Ally B. Dinhofer, Mario Garcia, Montefiore Medical Center, Bronx, NY, USA

255 - Value of Conventional and Speckle Tracking Echocardiography in the Assessment of Biventricular Function in Secondary Mitral Regurgitation After Repair With the Mitraclip System
Antonio Vitarelli, Carlo Gaudio, Enrico Mangieri, Gaetano Tanzilli, Lidia Capotosto, Advanced Echocardiography Research Unit, Cardiac Dept, Sapienza University, Rome, Italy

256 - Comparison of Right Ventricular Global Longitudinal Strain Between Vender-Dependent and Vender-Independent Two-Dimensional Speckle Tracking Software
Hiroimitsu Seno, Kenya Kusunose, Hirotsugu Yamada, Yoshihito Saijo, Susumu Nishio, Yukina Hirata, Takayuki Ise, Koji Yamaguchi, Shusuke Yagi, Takeshi Soeki, Tetsuzo Wakatsuki, Sata Masataka, Department of Cardiovascular Medicine, Tokushima University Hospital, Tokushima, Japan

257 - Single Site Experience With Transesophageal Echocardiographic Guidance of Dual Lumen Venovenous Extracorporeal Membrane Oxygenation Catheter Insertion
Michael Pfeiffer, Sonya Bressler, Ali Ghodsizad, Christoph Brehm, Penn State Hershey Medical Center, Hershey, PA, USA

258 - Substitution of Left Ventricular Outflow Tract Diameter With Body Surface Area
Evann Eisenberg, Peter Vlismas, Pedro Villablanca Spinetto, Daniel Spevack, Montefiore Medical Center, Bronx, NY, USA

259 - Differential Effects of Dobutamine and Exercise on Left Ventricular Volumes During Stress Echocardiography
Eliza Teo, Judy Hung, Jonathan Teoh, Evin Yucel, Daniel Bamira, Asaad Khan, Xin Zeng, Massachusetts General Hospital, Boston, MA, USA

260 - Deformation Imaging in Acute Myocardial Infarction: A Community Perspective
Limor Ilan Bushari, Yariv Gerber, Sorin Pislaru, Veronique Roger, Toshiyuki Kimura, Susan Weston, Sheila Manemann, Maurice Sarano, Mayo Clinic, Rochester, MN, USA

261 - Determinants of Overt and Masked Pulmonary Hypertension in Scleroderma
Leah M. Wright, Nathan Dwyer, Thomas Marwick, Menzies Institute for Medical Research, Hobart, Australia, Royal Hobart Hospital, Australia

262 - Distinction of Pre- Versus Post-Capillary Pulmonary Arterial Hypertension
Leah M. Wright, Nathan Dwyer, Thomas Marwick, Menzies Institute for Medical Research, Hobart, Australia, Royal Hobart Hospital, Hobart, Australia

Non Invasive Imaging - Scientific Session Session #703

Multimodality Imaging of the Aorta
Sunday, April 3, 2016, 2 p.m. - 3:30 p.m.
Room S503
CME Hours: 1.5 / CNE Hours: 1.5

Co-Chair: Anthony N. DeMaria
Co-Chair: Richard Devereux

2:00 p.m.
Imaging Aortic Dissection
Eduardo Bossone

2:18 p.m.
Aortic Aneurysm Imaging
Geoffrey D. Rubin
Durham, NC

2:36 p.m.
Imaging Patients With Marfan Syndrome
Milind Y. Desai
Cleveland, OH

2:54 p.m.
Imaging Aortopathy in Patients With Bicuspid Aortic Valve
Arturo Evangelista
Barcelona, Spain

3:12 p.m.
Role of Imaging in Evaluation of Symptomatic Patients After Aortic surgery
Alan B. Lumsden
Houston, TX

Non Invasive Imaging - Scientific Session Session #704

Is Heart Failure Present? What Is the Etiology
Sunday, April 3, 2016, 2 p.m. - 3:30 p.m.
Room S504
CME Hours: 1.5 / CNE Hours: 1.5

Co-Chair: Sherif F. Nagueh
Co-Chair: Otto A. Smiseth

2:00 p.m.
55 Year Old Male With Dyspnea 3 Years After an Anterior Wall MI
Miguel A. Quinones

2:15 p.m.
Question and Answer

2:18 p.m.
63 Year Old Woman 3 Months After Chemotherapy Treatment for Breast Cancer
Thor Edvardsen
Oslo, Norway

2:33 p.m.
Question and Answer



2:36 p.m.
70 Year Old Woman With Hypertension and Normal EF Who Is in ER for
Dyspnea
Hisham Dokainish
Hamilton, Canada

2:51 p.m.
Question and Answer

2:54 p.m.
68 Year Old Man With Abdominal Swelling and Early Diastolic Heart Sound 6
Years After Coronary Artery Bypass Surgery
Jae K. Oh
Rochester, MN

3:09 p.m.
Question and Answer

3:12 p.m.
32 Year Old Woman With Dyspnea and Right Parasternal Heave and Loud P2
Nelson B. Schiller
San Francisco, CA

3:27 p.m.
Question and Answer

Non Invasive Imaging - Maintenance of Certification

Session #819

Core Curriculum: I Can See Clearly Now- Fundamentals of CV Imaging

Sunday, April 3, 2016, 2 p.m. - 3:30 p.m.

Room N426

CME Hours: 1.5 /CNE Hours: 0

Chair: Dipan J. Shah

2:00 p.m.
Cases to Solidify Your Grasp on Non-Invasive Hemodynamics in the Echo Lab
Sunil V. Mankad
Rochester, MN

2:25 p.m.
MRI: The Evidence for Now and the Promise in the Future
Steven G. Lloyd
Birmingham, AL

2:50 p.m.
From Calcium Scoring to CCTA: What Is Appropriate and What Is Not?
Allen J. Taylor
North Bethesda, MD

3:15 p.m.
Question and Answer

Non Invasive Imaging - Maintenance of Certification

Session #820

Study Session for Maintenance of Certification: ACC Echocardiography Module 1

Sunday, April 3, 2016, 3:30 p.m. - 6 p.m.

Room S105ab

CME Hours: 2.5 /CNE Hours: 0

Chair: William F. Armstrong
MOC Faculty: Rosario Freeman
MOC Faculty: Kyle W. Klarich

Non Invasive Imaging - Moderated Poster Contributions

Session #1244M

Advances in Cardiac CT

Sunday, April 3, 2016, 3:45 p.m. - 4:30 p.m.

Non Invasive Imaging Moderated Poster Theater, Poster Area, South
Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

3:45 p.m.
Systemic Inflammation Is Associated With Coronary Artery Calcification and
All-Cause Mortality in Patients With Chronic Kidney Disease
In-Chang Hwang, Hyo Eun Park, Hack-Lyoung Kim, Hyue Mee Kim, Jun-Bean
Park, Yeonhee Yoon, Seung-Pyo Lee, Hyung-Kwan Kim, Goo Yeong Cho, Dae
Won Sohn, Yong-Jin Kim, Seoul National University Hospital, Seoul, South
Korea, Seoul National University College of Medicine, Seoul, South Korea

3:55 p.m.
Question and Answer

4:00 p.m.
Non-Invasive Fractional Flow Reserve Derived From Coronary Computed
Tomography Angiography in Patients With Acute Chest Pain: Results From
the ROMICAT II Trial
Maros Ferencik, Michael T. Lu, Thomas Mayrhofer, Alexander Ivanov,
Elizabeth Adami, Souma Sengupta, Campbell Rogers, Udo Hoffmann,
Massachusetts General Hospital and Harvard Medical School, Boston, MA,
USA, Knight Cardiovascular Institute, Oregon Health and Science University,
Portland, OR, USA

4:10 p.m.
Question and Answer

4:15 p.m.
68Ga-DOTATATE Vascular Inflammation Imaging Predicts High-Risk Plaque
Morphology and Culprit Coronary Lesions
Jason Tarkin, Francis R. Joshi, Nicholas R. Evans, Ashley Groves, Deepa
Gopalan, Roie Manavaki, Peter J. Kirkpatrick, Patrick A. Coughlin, John
Buscombe, Tim D. Fryer, Martin Bennett, Anthony Davenport, Elizabeth A.
Warburton, James Rudd, University of Cambridge, Cambridge, United
Kingdom

4:25 p.m.
Question and Answer

ACC Poster Moderator: Harvey S. Hecht
ACC Poster Moderator: Quynh A. Truong

Non Invasive Imaging - Scientific Session

Session #716

MR Vascular Imaging in 2015: Contrast and Non-Contrast Approaches

Sunday, April 3, 2016, 4:45 p.m. - 6 p.m.

Room S503

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Christopher M. Kramer
Co-Chair: David A. Bluemke

4:45 p.m.
Pre and Post-TAVR Assessment
Mark A. Lawson

5:00 p.m.
Acute and Chronic Aortic Diseases
David A. Bluemke
Bethesda, MD



5:15 p.m.
Peripheral Vascular Disease
Christopher M. Kramer
Charlottesville, VA

5:30 p.m.
Renovascular
Edward T. Martin
Tulsa, OK

5:45 p.m.
Question and Answer

Non Invasive Imaging - Scientific Session

Session #717

Pericardial Diseases: Diagnosis and Management

Sunday, April 3, 2016, 4:45 p.m. - 6 p.m.

Room S504

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Brian D. Hoit
Co-Chair: Teresa S. M. Tsang

4:45 p.m.
Ascites Five Years After Coronary Artery Bypass Surgery
Ethan Rowin

5:00 p.m.
Pericardial Cyst
Faisal Nabi
Houston, TX

5:15 p.m.
A Case of Recurrent Chest Pain
Allan L. Klein
Cleveland, OH

5:30 p.m.
A Case of Unexplained Hypotension
Jae K. Oh
Rochester, MN

5:45 p.m.
Question and Answer

Non Invasive Imaging - Oral Contributions

Session #911

Highlighted Original Research: Non Invasive Imaging and the Year in Review

Monday, April 4, 2016, 8 a.m. - 9:30 a.m.

Room S503

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Jeroen J. Bax
Co-Chair: Genevieve Derumeaux

8:15 a.m.
Relative Performance of SPECT and PET Myocardial Perfusion Imaging in a Prospectively Randomized Population of Symptomatic Patients With Known Coronary Artery Disease
Timothy M. Bateman, Iain A. McGhie, Gary Heller, Staci Courter, Eric Burgett, James Case, ASPIRE Foundation, Kansas City, MO, USA, Mid America Heart Institute, Kansas City, MO, USA

8:27 a.m.
Discussion

8:30 a.m.
Long-Term Mortality Benefit of Early Coronary Revascularization Versus Medical Therapy in Patients Without Known Coronary Artery Disease Undergoing Coronary Computed Tomographic Angiography: Results From Confirm Registry

Joshua Schulman-Marcus, Fay Lin, Heidi Gransar, Daniel Berman, Tracy Callister, Augustin DeLago, Martin Hadamitzky, Joerg Hausleiter, Mouaz Al-Mallah, Matthew Budoff, Philipp Kaufmann, Stephan Achenbach, Gilbert Raff, Kavitha Chinnaiyan, Filippo Cademartiri, Erica Maffei, Todd Villines, Yong-Jin Kim, Jonathon Leipsic, Ronen Rubinshtein, Gudrun Feuchtner, Gianluca Pontone, Allison Dunning, Leslee Shaw, James Min, Weill Cornell Medical College, New York, NY, USA

8:42 a.m.
Discussion

8:45 a.m.
Dual-Source Computed Tomography to Improve Prediction of Response to Cardiac Resynchronization Therapy (DIRECT): A Prospective Double-Blind Randomized Study
Quynh A. Truong, Jackie Szymonifka, Michael Picard, Wai-Ee Thai, Bryan Wai, Edwin Heist, Guanglei Xiong, Jim Cheung, Udo Hoffmann, Jagmeet Singh, New York-Presbyterian Hospital and Weill Cornell Medical College, New York, NY, USA, Massachusetts General Hospital, Boston, MA, USA

8:57 a.m.
Discussion

9:00 a.m.
Long-Term Outcomes of an FFRCT Diagnostic Strategy Versus Usual Care in Suspected Coronary Artery Disease: Results From the PLATFORM (Prospective Longitudinal Trial of FFRCT: Outcome and Resource IMpacts) Study
Pamela S. Douglas, Bernard De Bruyne, Gianluca Pontone, Manesh Patel, Bjarne Norgaard, Robert Byrne, Nick Curzen, Ian Purcell, Matthias Gutberlet, Gilles Rioufol, Ulrich Hink, Herwig Schuchlenz, Gudrun Feuchtner, Martine Gilard, Karen Chiswell, Derek Cyr, Alan Wilk, Campbell Rogers, Mark Hlatky, on behalf of the PLATFORM Investigators, Duke Clinical Research Institute, Durham, NC, USA

9:12 a.m.
Discussion

9:15 a.m.
Performance of Cardiac CT Compared to Functional Testing in Women and Men With Suspected Coronary Artery Disease: The Multicenter, Randomized Crescent Trial
Marisa Lubbers, Admir Dedic, Adriaan Coenen, Tjebbe Galema, Jurgen Akkerhuis, Tobias Bruning, Boudewijn Krenning, Paul Musters, Mohamed Ouhlous, Anho Liem, Andre Niezen, M. G. Myriam Hunink, Ron van Domburg, Pim de Feijter, Koen Nieman, Erasmus MC, Rotterdam, The Netherlands

9:27 a.m.
Discussion

Non Invasive Imaging - Poster Contributions

Session #1261

New Technologies in Echocardiography

Monday, April 4, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

221 - Maturation Changes and Reference Values for Tricuspid Annular Plane Systolic Excursion (TAPSE) From Birth to One-Year Corrected Age: Right Ventricular Systolic Function in Preterm Neonates
Philip Levy, Meghna Patel, Aaron Hamvas, Gautam Singh, Washington University School of Medicine, Saint Louis, MO, USA, Goryeb Children's Hospital - MidAtlantic Neoantology Associates, Morristown, MO, USA



222 - Maturational Patterns of Ventricular Septal Deformation in Preterm and Term Infants in the First Month of Life

Philip Levy, Eda Cristina Abuchaibe, Meghna Patel, Gautam Singh, Washington University School of Medicine, Saint Louis, MO, USA, Goryeb Children's Hospital - MidAtlantic Neoantology Associates, Morristown, NJ, USA

223 - Longitudinal Maturational Changes in Pulmonary Hemodynamics in Premature Infants Assessed by Pulmonary Artery Acceleration Time: Reference and Predictive Values

Philip Levy, Meghna Patel, Aaron Hamvas, Gautam Singh, Washington University School of Medicine, Saint Louis, MO, USA, Goryeb Children's Hospital - MidAtlantic Neoantology Associates, Morristown, NJ, USA

224 - Shape of the Right Ventricular Outflow Tract Doppler Envelope Is a Sensitive Predictor of Altered Pulmonary Hemodynamics in Pediatric Patients

Philip Levy, Georgeann Groh, Abeer Hamdy, Meghna Patel, Joshua Murphy, Gautam Singh, Washington University School of Medicine, Saint Louis, MO, USA, Goryeb Children's Hospital - MidAtlantic Neoantology Associates, Morristown, NJ, USA

225 - The Importance of the Leaflet-to-Annular Mismatch Index for Patients Undergoing Echo Guided Transapical Off-Pump Mitral Valve Repair With Neochord Implantation

Andrea Colli, Matteo Montagner, Danila Azzolina, Nicola Soriani, Laura Besola, Erica Manzan, Eleonora Bizzotto, Fabio Zucchetta, Roberto Bellu, Demetrio Pittarello, Gino Gerosa, University of Padua, Padua, Italy

226 - The Utility of Novel Three-Dimensional Speckle Tracking Echocardiography Parameters for Global Left Ventricular Dysfunction Assessment: The Coronary Artery Risk Development in Young Adults (CARDIA) Study

Chike C. Nwabuo, Henrique T. Moreira, Henrique D. Vasconcellos, Guilherme Yared, Bharath Ambale Venkatesh, Satoru Kishi, Cora Lewis, Anderson Armstrong, Stephen Sidney, Donald Lloyd-Jones, Pamela Schreiner, Samuel Gidding, Joao Lima, Johns Hopkins University, Baltimore, MD, USA

227 - Role of Left Ventricular Circumferential Strain in the Prediction of Clinical Outcome in Patients With End-Stage Phase of Hypertrophic Cardiomyopathy

Makoto Amaki, Hideaki Kanzaki, Seiji Takashio, Hiroyuki Takahama, Takahiro Ohara, Takuya Hasegawa, Yasuo Sugano, Satoshi Yasuda, Hisao Ogawa, Toshihisa Anzai, National Cerebral and Cardiovascular Center, Suita, Japan

229 - Time Related Changes in Right Ventricular Longitudinal Mechanics From the Fetus to the Young Infant

Collin Erickson, Mary Craft, Ling Li, Navya Joseph, David Danford, Shelby Kutty, Department of Pediatric Cardiology and Cardiovascular Surgery, University of Nebraska College of Med, Omaha, NE, USA

230 - Echocardiographic, Doppler and Myocardial Deformation Variables Distinguishing Hypertrophic Cardiomyopathy From Athletically Trained Hearts in Adolescents

Govinda Paudel, Muhammad Qureshi, Megan M. O'Byrne, Jonathan Johnson, Benjamin Eidem, Rebecca K. Lindquist, Chelsea Reece, Angela R. Miller, Patrick O'Leary, Mayo Clinic, Rochester, MN, USA

231 - Quantification of Shunt Volume Through Ventricular Septal Defects of Varied Area, Shape and Number Using Real-Time 3D Color Doppler Echocardiography: An In Vitro Study

David J. Sahn, Evan Tracy, Kim Dang, Joanne Tran, Meihua Zhu, Muhammad Ashraf, Oregon Health & Science University, Portland, OR, USA

232 - Deceleration Time of Early Diastolic Mitral Annular Velocity as a New Index for Noninvasive Assessment of Left Ventricular End-Diastolic Pressure

Takeshi Hozumi, Kazushi Takemoto, Kumiko Hirata, Makoto Orii, Akio Kuroi, Takeyoshi Kameyama, Takashi Yamano, Yoshiaki Matsuo, Yasushi Ino, Takashi Kubo, Atsushi Tanaka, Takashi Akasaka, Wakayama Medical University, Wakayama, Japan

233 - Association of the Intensity and Duration of Cigarette Smoking Exposure With Cardiac Structure and Function in Smokers: The Echocardiographic Study of Hispanic/Latinos (ECHO-SOL)

John Leigh, Robert Kaplan, Katrina Swett, Pelbretton Balfour, Mayank Kansal, Gregory Talavera, Krista Perreira, Michael Blaha, Emelia Benjamin, Rose Marie Robertson, Aruni Bhatnagar, Carlos Rodriguez, Wake Forest School of Medicine, Winston Salem, NC, USA

234 - Cardiac Myocardial Strain in Pediatric Patients After Bone Marrow Transplantation

Jacqueline Shuplock, Matthew Israel, Haydar Frangoul, David Parra, Jonathan Soslow, Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN, USA

235 - Safety of Perflutren-Based Echocardiographic Contrast Agent Administration in the Presence of a Patent Foramen Ovale (PFO): A Multicenter Study

Valentin Suma, Farhan Bajwa, Suraj Sookhu, Jyothy J. Puthumana, Issam A. Mikati, Arif Jivan, Ajay Yadlapati, Lakshmi Muthukumar, Rena Toole, Edgar Argulian, Richa Nahar, Jasjit Bhinder, Aasha Gopal, Farooq A. Chaudhry, Hofstra North Shore-LIJ School of Medicine, Manhasset, NY, USA, Icahn School of Medicine at Mount Sinai, NY, NY, USA

236 - Simultaneous Carotid Ultrasonography Provides Incremental Prognostic Value Beyond Clinical and Stress Echocardiography Data in Patients With Suspected Angina Without Known Coronary Artery Disease: A Prospective Study

Roxy Senior, Benoy Shah, Kostas Zacharias, Christopher Kinsey, Grace Young, Shahram Ahmadvazir, Northwick Park Hospital, Harrow, London, United Kingdom, Royal Brompton Hospital, London, United Kingdom

263 - Atrial Conduit Phasic Function Soon After Electrical Cardioversion of Persistent Atrial Fibrillation as a Predictor of Early Atrial Fibrillation Recurrence

Anna Degiovanni, Federica De Vecchi, Eleonora Prenna, Enrico Boggio, Paolo Marino, Università del Piemonte Orientale, Novara, Italy

264 - Different Approaches to Left Atrial Volume Indexation and Risk of Cardiovascular Disease and Death in a Population With High Prevalence of Obesity: The Strong Heart Study

Maria G. Karas, Shuo Xu, Abdissa Negassa, Elisa Lee, Lyle Best, Dedra Buchwald, Barbara Howard, Mary Roman, Richard Devereux, Jorge Kizer, Weill Cornell Medical College, New York, NY, USA

265 - Left Atrial Strain Responds to Exercise and Predicts Exercise Capacity in Healthy Subjects: The Health eHeart Study

Randell C. Thomas, Qizhi Fang, Dwight Bibby, Rakesh Mishra, Nelson B. Schiller, University of California, San Francisco, San Francisco, CA, USA

266 - The Influence of Aging in LA Size and Function in the Elderly Population: The Aric Study

Alexandra Goncalves, Chung-Lieh Hung, Brian Claggett, Kotaro Nochioka, Susan Cheng, Suma Konety, Dalane Kitzman, Amil Shah, Scott Solomon, Brigham and Women's Hospital, Boston, MA, USA

267 - Three-Dimensional Echocardiographic Approach for Automated Quantification of Left Atrial Volume Using an Adaptive Analytics Algorithm: Initial Validation Study

Diego Medvedofsky, Wendy Tsang, Masaaki Takeuchi, Lynn Weinert, Megan Yamat, Amit Patel, Ivan Salgo, David Prater, Victor Mor-Avi, Roberto Lang, Department of Medicine, University of Chicago Medical Center, Chicago, IL, USA, Philips Medical Imaging, Andover, MA, USA

268 - Dynamic Right Ventricular Shape Analysis in the Normal Heart Using 3D Echocardiography-Derived Curvature Indices

K. Addetia, Francesco Maffessanti, Denisa Muraru, Amita Singh, Megan Yamat, Lynn Weinert, Victor Mor-Avi, Luigi Badano, Roberto Lang, University of Chicago, Chicago, IL, USA, University of Padua, Padua, Italy



269 - Echocardiographic Markers of Left Atrial Fibrosis Associated With the Severity of Atrial Fibrillation

Melissa Leung, Rachid Abou, Philippe Van Rosendael, Suzanne Van Wijngaarden, Madelien Regeer, Tomaz Podlesnikar, Nina Ajmone Marsan, Victoria Delgado, Jeroen Bax, Leiden University Medical Centre, Leiden, The Netherlands

270 - Incidence and Outcome of Pericardial Effusion in Pediatric Patients Undergoing Stem Cell Transplant

Melissa Diamond, Catalina Ruiz-Mesa, Fernando Corrales-Medina, Leonardo Tamariz, Satinder Sandhu, Edward Ziga, Sethuraman Swaminathan, Holtz Children's Hospital / University of Miami Miller School of Medicine, Miami, FL, USA, FL, USA

Non Invasive Imaging - Poster Contributions

Session #1262

Nuclear Cardiology: Beyond Perfusion Imaging

Monday, April 4, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

237 - Intra-Individual Comparison of Left Ventricular Ejection Fraction and Volumes Derived From Solid State and Anger SPECT Imaging

Michael Trybula, Andrew Althouse, Joseph Dietz, Prem Soman, University of Pittsburgh Medical Center, Pittsburgh, PA, USA

238 - Prognostic Usefulness of AdreView Scintigraphy in Identifying Heart Failure Patients at Lower Risk of Death During 5-Year Follow-Up in the ADMIRE-HF Study

Roxy Senior, Lars Friberg, Mark Travin, Franc Hudnut, Harish Chandna, Denis Agostini, Karthikeyan Ananth, Micahael Miyamoto, Mahesh Shah, Michael Koren, Juergen vom Dahl, Wayne Levy, On behalf of the ADMIRE-HF investigators' group, Northwick Park Hospital & Royal Brompton Hospital, Harrow, London, United Kingdom

239 - Non-Invasive Assessment of Atherosclerotic Carotid Plaques by 18F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography (18F-FDG PET/CT) Imaging and Microwave Radiometry (MWR): Validation With Histopathological Findings

Georgios Benetos, Konstantinos Toutouzas, Iosif Koutagiar, George Agrogiannis, Aleksandros Georgakopoulos, Nikoletta Pianou, Pavlos Kafouris, Sofoklis Trachanellis, Nikolaos Patelis, Nikolaos Bessias, Konstantinos Filis, Chris Klonaris, Efsttraios Patsouris, Elias Siores, George Spyrou, Constantina Aggeli, Eleftherios Tsiamis, Dennis Cokkinos, Dimitris Tousoulis, Constantinos Anagnostopoulos, First Department of Cardiology, Athens School of Medicine, Athens, Greece, Academy of Athens, Biomedical Research Foundation, Athens, Greece

240 - Usefulness of ADMIRE-HF Risk Score for the Prediction of Sudden Cardiac Death in Patients With Chronic Heart Failure

Iyo Ikeda, Takahisa Yamada, Takashi Morita, Yoshio Furukawa, Shunsuke Tamaki, Yusuke Iwasaki, Masato Kawasaki, Atsushi Kikuchi, Takumi Kondo, Masashi Ishimi, Hideyuki Haku, Tatsuhisa Ozaki, Yoshihiro Sato, Masahiro Seo, Eiji Fukuhara, Masatake Fukunami, Osaka General Medical Center, Osaka, Japan

241 - The Clinical Utility of 18F-FDG Positron Emission

Tomography/Computed Tomography Scan Versus 99mTc-HMPAO White Blood Cell Single-Photon Emission Computerized Tomography in the Extra-Cardiac Work-Up of Patients With Duke Definite Infective Endocarditis
Trine K. Lauridsen, Kasper Iversen, Nikolaj Ihlemann, Philip Hasbak, Annika Loft Jakobsen, Anne Kiil Berthelsen, Anders Dahl, Danijela Dejanovic, Elisabeth Albrecht-Beste, Jann Mortensen, Andreas Kjaer, Henning Bundgaard, Niels Eske Bruun, Department of Cardiology, The Heart Center, Copenhagen University Hospital, Copenhagen, Denmark, Department of Cardiology, Herlev-Gentofte University Hospital, Copenhagen, Denmark

242 - The Impact of Integration of Heart Rate Response to Regadenoson Stress to Enhance the Prognostic Value of SPECT Myocardial Perfusion Imaging in Patients With End-Stage Renal Disease

Ibtihaj Fughhi, Javier Gomez, Tania Campagnoli, Marwan Wassouf, Amjad Ali, Rami Doukky, Rush University Medical Center, Chicago, IL, USA, John H. Stroger, Jr. Hospital of Cook County, Chicago, IL, USA

243 - Feasibility and Value of Gated Blood Pool SPECT (GBPS) Assessment of RV Function in Patients Undergoing LVAD Implantation

Christopher B. Link, Aditi Nayak, Luigi Lagazzi, Andrew Althouse, Jeffrey Teuteberg, Marc Simon, Robert Kormos, Prem Soman, UPMC, Pittsburgh, PA, USA

244 - Non-Invasive Imaging to Identify Susceptibility for Ventricular Arrhythmias in Ischemic Cardiomyopathy

Mischa T. Rijnierse, Cornelis P. Allaart, Stefan de Haan, Hendrik Harms, Marc Huisman, Aernout Beek, Adriaan Lammertsma, Albert van Rossum, Paul Knaapen, VU University Medical Center, Amsterdam, The Netherlands

245 - Cardiac Sympathetic Innervation in Patients With Idiopathic Pulmonary Arterial Hypertension: Relation With Disease Severity and the Effects of Beta-Blocking Therapy

Mischa T. Rijnierse, Jasmijn S. van Campen, Karin de Boer, Hendrik Harms, Marc Huisman, Pieter Raijmakers, Frances S. de Man, Martijn Heymans, Adriaan Lammertsma, Paul Knaapen, Harm Bogaard, Anton Vonk-Noordegraaf, Cornelis P. Allaart, VU University Medical Center, Amsterdam, The Netherlands

246 - Single Photon Emission Computerized Tomography Imaging Can Quantify Regional Distribution of 99mTechnetium Pyrophosphate Uptake in Patients With Transthyretin Cardiac Amyloidosis

Ross Ehmke, Rachele Morgenstern, Adam Castano, Albert DeLuca, Ted Pozniakoff, Jeffrey Lin, Howard Julien, Zhezhen Jin, Andrew Einstein, Mathew Maurer, Sabahat Bokhari, Columbia University Medical Center, New York City, NY, USA

247 - The Myocardial Contraction Fraction Is Superior to the Voltage to Mass Ratio for Identifying TTR Cardiac Amyloid in Patients Undergoing TAVR

Adam Castano, David Narotsky, Susheel Kodali, Tamim Nazif, Isaac George, Torsten Vahl, Nadira Hamid, Rebecca Hahn, Rachele Morgenstern, Sabahat Bokhari, Mathew Maurer, Columbia University Medical Center, New York, NY, USA

248 - Normal Limits of Heart-to-Mediastinum Ratio (HMR) of I-123 MIBG Uptake Quantified From High-Sensitivity (HS) and High-Resolution (HR) SPECT/CT

Yi-Hwa Liu, Taraneh Hashemi Zonouz, Veronica Sandoval, Rachel Lampert, Albert Sinusas, Yale University, New Haven, CT, USA

249 - High Risk of Malignant Ventricular Arrhythmias in Cardiac Sarcoidosis Associated With Failure to Suppress Myocardial Inflammation Assessed by FDG-PET Scanning

Ashley Pender, Peter H. S. Sporn, Susan R. Russell, Rod Passman, Bradley Knight, Alexandru B. Chicos, Department of Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL, USA

250 - Microvascular Angina in the Absence of Coronary Artery Disease Is Common in Undifferentiated Chest Pain Patients in the Emergency Department

Basma Safdar, Gail D'Onofrio, James Dziura, Raymond Russell, Matthew Naftilan, Caitlin Johnson, Albert Sinusas, Yale School of Medicine, New Haven, CT, USA, USA



Non Invasive Imaging - Poster Contributions

Session #1263

Non Invasive Imaging: MR Valve Disease and Atrial/Ventricular Pathology

Monday, April 4, 2016, 9:30 a.m. - 12:30 p.m.

Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

251 - Role of Pericardial Delayed Hyperenhancement in Predicting Clinical Resolution Among Patients With Recurrent Pericarditis

Arnav Kumar, Edlira Yzeiraj, Lin Lin, Kimi Sato, Jorge Betancor, Srikanth Koneru, Steven Assalita, Paul Cremer, Balaji Tamarappoo, Allan Klein, Cleveland Clinic Heart and Vascular Institute, Cleveland, OH, USA

252 - Predictors of Outcomes by Cardiac Magnetic Resonance in Patients With Pulmonary Hypertension

Carlos Andres Gonzalez-Lengua, Chirag Agarwal, Pirkash Kumar, Maria Eduarda Siqueira, Jose Manuel Garcia-Ruiz, Ziad Sergie, Jagat Narula, Valentin Fuster, Javier Sanz, Mount Sinai Hospital, New York, NY, USA

253 - Left Atrial Performance in the Course of Hypertrophic Cardiomyopathy: Relation to Left Ventricular Hypertrophy and Fibrosis

Johannes Kowallick, Miguel Silva Vieira, Shelby Kutty, Joachim Lotz, Gerd Hasenfuss, Amedeo Chiribiri, Andreas Schuster, University Medical Centre Göttingen, Göttingen, Germany

254 - Mitral Regurgitation Severity Is Associated With Increased Diffuse Myocardial Fibrosis by Extracellular Volume Quantification in Non-Ischemic Cardiomyopathy

Samornrat Jampates, Srikanth Koneru, Zoran Popovic, Scott Flamm, Wai Hong Tang, Brian Griffin, Deborah Kwon, Cleveland Clinic Foundation, Cleveland, OH, USA

255 - Multiple Clinical Factors Affect Left Atrial Shape in Atrial Fibrillation

Erik Biegging, Alan Morris, Joshua Cates, Brent Wilson, Nassir Marrouche, University of Utah, Salt Lake City, UT, USA

256 - Associations Between CHA2DS2-VASc and Degree of Atrial Fibrosis

Jordan King, Mohamed Labedi, Robert White, Mihail Chelu, Gagandeep Kaur, Kara Johnson, Christina Pacchia, Nassir Marrouche, Comprehensive Arrhythmia and Research Management Center, University of Utah, School of Medicine, Salt Lake City, UT, USA, Pharmacotherapy Outcomes Research Center, University of Utah, College of Pharmacy, Salt Lake City, UT, USA

257 - Manganese Chelate-Enhanced Magnetic Resonance Imaging of Myocardial Infarction in a Rabbit Ischemia Model: Comparison With Gadolinium-Enhanced Magnetic Resonance Imaging

Lingyi Wen, Zhigang Yang, Chunchao Xia, Lizhi Zhang, Hua Ai, Yingkun Guo, Department of Radiology, West China Hospital, Sichuan University, Chengdu, People's Republic of China

258 - Epicardial Adipose Tissue Is Related to Arterial Stiffness in Patients With Cardio-Metabolic Disease

Shaween Al-talabany, Faisal Khan, Graeme Houston, Helen Colhoun, Jonathan Weir-McCall, Daniel Leven, Fiona Dove, Deirdre Cassidy, Helen Looker, Chim Lang, University of Dundee, Dundee, United Kingdom

259 - Systematic Review and Meta-Analysis Evaluating the Diagnostic Accuracy of Cardiac Magnetic Resonance Imaging to Assess Left Atrial Appendage Thrombi

Yang Zhan, McGill University, Montreal, Canada

260 - Comparison of Left Atrial Structural Remodeling in Patients With and Without Atrial Fibrillation: A Single Center MRI Study

Christian Mahnkopf, Marcel Mitlacher, Johannes Brachmann, Klinikum Coburg, Dept. of Cardiology, Coburg, Germany

261 - Common Genetic Variants and Left Ventricular Structure in the Multi-Ethnic Study of Atherosclerosis

Jose D. Vargas, Ani Manichaikul, Chia-Ying Liu, Stephen Rich, Wendy Post, Daniel Judge, David Bluemke, National Institutes of Health, Bethesda, MD, USA

262 - Flail Mitral Leaflet or Presence of the Coanda Effect Are Not Invariably Associated With Severe Mitral Regurgitation as Assessed by MRI

Donna Chelle Morales, Seth Uretsky, Konstantinos Koulogiannis, Leo Marcoff, Lillian Aldaia, Edgar Argulian, Steven Wolff, Linda Gillam, Morristown Medical Center, Atlantic Health System, Morristown, NJ, USA, Carnegie Hall Radiology, Advanced Cardiovascular Imaging, New York City, NY, USA

Non Invasive Imaging - Moderated Poster Contributions

Session #1279M

Recent Advances in Nuclear Cardiology

Monday, April 4, 2016, 9:45 a.m. - 10:30 a.m.

Non Invasive Imaging Moderated Poster Theater, Poster Area, South Hall A1

CME Hours: 0.75 /CNE Hours: 0.75

9:45 a.m.

Improved Assessment of CAD in Obese Subjects With Flurpiridaz F18 PET Myocardial Perfusion Imaging: A Subset Analysis of the Flurpiridaz F18 301 Phase 3 Study

Timothy M. Bateman, Jamshid Maddahi, James Udelson, Rob Beanlands, Juhani Knuuti, Gary Heller, Daniel Berman, Joel Lazewatsky, Cesare Orlandi, Mid America Heart Institute, Kansas City, MO, USA

9:55 a.m.

Question and Answer

10:00 a.m.

Diagnostic and Prognostic Utility of Quantitative Cardiac PET Evaluation of Cardiac Allograft Vasculopathy

Paco E. Bravo, Tomas Vita, Viviany Taqueti, Ankur Gupta, Sara Seidelmann, Nishant Shah, Jon Hainer, Courtney Foster, Meagan Harrington, Fred Costantino, Mandeep Mehra, Sharmila Dorbala, Ron Blankstein, Michael Givertz, Marcelo Di Carli, Brigham and Women's Hospital, Boston, MA, USA

10:10 a.m.

Question and Answer

10:15 a.m.

Short-Term Treatment With Ranolazine Improves Left Ventricular Filling Pressures Without Detectable Changes in Myocardial Blood Flow in Symptomatic Diabetic Patients Without Obstructive Coronary Artery Disease

Nishant R. Shah, Michael Cheezum, Vikas Veeranna, Stephen Horgan, Viviany Taqueti, Venkatesh Murthy, Courtney Foster, Jon Hainer, Mariya Gaber, Josh Klein, Karla Daniels, Jose Rivero, Amil Shah, Peter Stone, David Morrow, Michael Steigner, Sharmila Dorbala, Ron Blankstein, Marcelo Di Carli, Brigham & Women's Hospital, Boston, MA, USA, Harvard Medical School, Boston, MA, USA

10:25 a.m.

Question and Answer

ACC Poster Moderator: Aiden Abidov

ACC Poster Moderator: Saurabh Malhotra



Non Invasive Imaging - Scientific Session

Session #743

Cardiac Molecular Imaging

Monday, April 4, 2016, 10:45 a.m. - 12:15 p.m.

Room S503

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Victor A. Ferrari

Co-Chair: Albert J. Sinusas

10:45 a.m.

Echo Based Molecular Imaging Approaches

Flordeliza S. Villanueva

11:03 a.m.

MRI Based Molecular Imaging Approaches

David Sosnovik

Boston, MA

11:21 a.m.

Radionuclide Imaging-Based Approaches

Ahmed A. Tawakol

Wayland, MA

11:39 a.m.

Opportunities and Challenges for Cardiac Molecular Imaging

Albert J. Sinusas

New Haven, CT

12:07 p.m.

Question and Answer

Non Invasive Imaging - Scientific Session

Session #758

The Right Imaging Test in the Right Patient at the Right Time: A

Case-Based Approach

Monday, April 4, 2016, 12:30 p.m. - 1:45 p.m.

Room S503

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Sondra M. DePalma

Co-Chair: Leslee J. Shaw

Panelist: Brian G. Abbott

Panelist: Manuel D. Cerqueira

Panelist: Dipan J. Shah

12:30 p.m.

Acute Onset of Heart Failure

Nima Aghili

Boston, MA

12:43 p.m.

Panel Discussion

12:48 p.m.

Symptomatic Valvular Disease

Dorothy D. Pearson

Boston, MA

1:01 p.m.

Panel Discussion

1:06 p.m.

Preoperative CAD Assessment in a Patient Undergoing Bariatric Surgery With an Abnormal Electrocardiogram

Eric J. Chan

Hershey, PA

1:19 p.m.

Panel Discussion

1:24 p.m.

Asymptomatic Person With Multiple Cardiovascular Risk Factors

Eileen M. Handberg

Gainesville, FL

1:37 p.m.

Panel Discussion

Non Invasive Imaging - Moderated Poster Contributions

Session #1290M

Atrial and Ventricular Strain: Diagnostic and Prognostic Roles

Monday, April 4, 2016, 12:30 p.m. - 1:45 p.m.

Non Invasive Imaging Moderated Poster Theater, Poster Area, South Hall A1

CME Hours: 1.25 /CNE Hours: 1.25

12:30 p.m.

Differences in Left Ventricular Global Longitudinal Strain Assessed by Two-Dimensional and Three-Dimensional Speckle Tracking Echocardiography: The Coronary Artery Risk Development in Young Adults (CARDIA) Study

Henrique Turin Moreira, Chike Nwabuo, Guilherme Yared, Vasconcelos D.

Henrique, Anderson Armstrong, Satoru Kishi, Bharath Ambale Venkatesh,

Cora Lewis, Pamela Schreiner, Stephen Sidney, Donald Lloyd-Jones, Samuel

Gidding, Joao Lima, Johns Hopkins University, Baltimore, MD, USA

12:40 p.m.

Question and Answer

12:45 p.m.

Normal Ranges of Left Atrial Strain by Speckle Tracking Echocardiography: A Systematic Review and Meta-Analysis of 1,789 Healthy Subjects

Faraz Pathan, Nicholas D'Elia, Mark Nolan, Thomas Marwick, Kazuaki Negishi,

The Menzies Institute for Medical Research, Hobart, Australia

12:55 p.m.

Question and Answer

1:00 p.m.

Depressed Right Ventricular Longitudinal Strain Is Negatively Prognostic After Adjusting for Traditional Risk Factors After Heart Transplantation

Amr F. Barakat, Brett Sperry, Zoran Popovic, Brian Griffin, Randall Starling,

Milind Desai, Cleveland Clinic Foundation, Cleveland, OH, USA

1:10 p.m.

Question and Answer

1:15 p.m.

Global Longitudinal Strain by Echocardiography Predicts Long Term Risk of Cardiovascular Morbidity and Mortality in a Low Risk General Population: The Copenhagen City Heart Study

Tor Biering-Sorensen, Sofie R. Biering-Sørensen, Flemming Javier Olsen,

Morten Sengeløv, Amil Shah, Jan Jensen, Department of Cardiology, Herlev

and Gentofte Hospital, University of Copenhagen, Hellerup, Denmark

1:25 p.m.

Question and Answer

1:30 p.m.

Prognostic Significance of Global Longitudinal Strain and Correction of

Primary Mitral Regurgitation in Patients With Preserved Left Ventricular

Ejection Fraction

Alaa Alashi, Amgad Mentias, Krishna Patel, Amjad Abdullah, Zoran Popovic,

A. Gillinov, Rakesh M. Suri, Tomislav Mihaljevic, Joseph Sabik, Lars Svensson,

Brian Griffin, Milind Desai, Cleveland Clinic Foundation, Cleveland, OH, USA



1:40 p.m.
Question and Answer

ACC Poster Moderator: Theodore P. Abraham
ACC Poster Moderator: Michele Nanna

Non Invasive Imaging - Scientific Session

Session #770

Future of Cardiovascular Imaging: A Report From the ACC Think Tank

Monday, April 4, 2016, 2 p.m. - 3:30 p.m.

Room S503

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Manuel D. Cerqueira

Co-Chair: Pamela S. Douglas

Panelist: Neil J. Weissman

Panelist: Daniel S. Berman

Panelist: Prem Soman

Panelist: Kavitha Chinnaiyan

Panelist: Partho P. Sengupta

2:00 p.m.

ACC-Talk: The Future of Cardiovascular Imaging

Neil J. Weissman

Washington, DC

2:10 p.m.

Question and Answer

2:15 p.m.

Delivery of Value-Based Imaging Services

Daniel S. Berman

Los Angeles, CA

2:30 p.m.

The Cardiovascular Imager of the Future

Prem Soman

Pittsburgh, PA

2:45 p.m.

Innovation and Research in Imaging Technology

Kavitha Chinnaiyan

Plymouth, MI

3:00 p.m.

Maximizing Imaging Information and Outcomes

Partho P. Sengupta

New York, NY

3:15 p.m.

Panel Discussion

Non Invasive Imaging - Scientific Session

Session #784

What's New in Nuclear Cardiology?

Monday, April 4, 2016, 3:45 p.m. - 5:15 p.m.

Room S503

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: John J. Mahmarian

Co-Chair: Saurabh Malhotra

3:45 p.m.

Update on Clinical Trials

Leslee J. Shaw

4:07 p.m.

Imaging Myocardial Innervation

Mark I. Travin

Pleasantville, NY

4:30 p.m.

New SPECT Cameras

Daniel S. Berman

Los Angeles, CA

4:52 p.m.

Cardiac PET

Robert A. deKemp

Ottawa, Canada