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 SS03
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 Pontone
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 Biëring-Sørensen, 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 Alkharrabsheh, 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 Maffeossanti, 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, Austria
228 - Diastolic Myocardial Stiffness Estimated by Echocardiography in Patients With Aortic Stenosis
Mahmoud Alashry, Sushil Luis, Sorin Pislaru, Ratnasari Padang, Patricia Pellikka, Cristiina 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 Dispensieri, Morie Gertz, Giampaolo Merlini, Martha Lacy, Francis K. Baud, 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 Zelenhunt, 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 Progression in Patients With Asymptomatic Aortic Stenosis 
Keisuke Minami, Masaki Izumo, Kengo Suzuki, Kanako Teramoto, Maya Tsukahara, Yuki Sato, Shingo Kujwa, 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, Britt 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 Doukkly, 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 
Takeki Nishi, Nobusada Funabashi, Koya Ozawa, Masayuki Takahara, Hiroyuki Takaoka, Yoshihide Fujimoto, Yoshio Kobayashi, Chiba University Graduate School of Medicine, Chiba, Japan

261 - 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, Seichi Tazawa, Manabu Nitta, Koudai Momoki, Masafumi Utsumi, Satoshi Yasukouchi, Nagano Children Hospital, Azumino, Japan

262 - Improper Use of Echocardiography in Pediatric Chest Pain 
Tuan Nguyen, Michael Fundora, Elizabeth Welch, Pamela Douglas, Benjamin Eidem, Robert Campbell, Rory Weiner, Kenan Stern, Oscar Berenvides, 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 QJ, Masataka Sugahara, Elizabeth A Crago, Yuefang Chang, Theodore F Lagattuta, Khalil Yousef, Robert M Friedlander, Marilyn T Hrvanak, 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, Angad 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 
Ambarir Bhullar, Mamininder Bhullar, Manmeet Singh, Kamil Muhieddeen, Bhavik Khatri, Ryan Berg, Enrique Carabajal, Chandra Katkireddy, UCSF Fresno, Fresno, CA, USA

269 - Aortopathy in Hypertrrophic Cardiomyopathy; The Association With Sinus of Valsalva Versus Mid Ascending Aorta: An Epidemiological Study 
Mizra Nubair Ahmad, Mizra Mujadil Ahmad, Sharmeem Fatima Hussain, 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 Shamer, Sukrit Narula, Mohamed A. Abdel-Rahman, Osama Rifaie, Jagat Narula, Joel Dudley, Partho Sengupta, Ichan School of Medicine, Chiba, Japan, Mayo Clinic, Rochester, MN, 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 Talx, 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 
241 - Abnormal Cardiac Sympathetic Activity Detected by 123-I-Metaiodobenzylguanidine 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 Słomka, 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
Ronald 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
Phillip Robson, Marc Dewey, Maria Giovanna Trivieri, Nicolas Karakatsanis, Ronan Abgral, Johanna Contreres, 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 Kerzger, 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 Carlo, Ron Blankstein, Brugham and Womens Hospital, Boston, MA, USA

249 - Vitamin D Levels Are Associated With Prevalence and Burden of Perfusion Defects on Myocardial Perfusion Imaging
Waqas 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, Wajiha 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
Nasim Samandari, Jacob Marott, Lars Odum, Lars Juel Andersen, Roskilde Steen Carstensen, Frederik Voigt Carstensen, Christopher Voigt Carstensen, Bandera Francesco, Marta Pellegrino, Valentina Labate, Ela Nishi, Nobusada Funabashi, Koya Ozawa, Hiroyuki Takaoka, Masayuki Takahara, Yoshifumi 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 Siassos, Konstantinos Mourouzis, Gerasimos Terzis, Aggeliki Stasinaki, Efthathios Dimitropoulos, Nikolaos Gouliopoulos, Eleen Kokkou, Panagiotis Tourikis, Konstantinos Spengos, Dimitris Toussoulis, 1st Department of Cardiology, 'Hippokration' Hospital, University of Athens Medical School, Athens, Greece

254 - Fatalties in United States Triathlons: An Expanded Profile
Kevin M. Harris, Lawrence Creswell, Taylor Thomas, Tammy Haas, Monica Tung, Erin Isaacoss, Ross Gerberich, 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, Sao Paulo, Brazil, InCor do HCFMUSP, Sao 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 Baggs, 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 Esim, Cole S. Bailey, Aaron Baggs, 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 Chiamas, 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 Warfy, James R. DeLuca, Courtney Foster, Rory Weiner, Gregory Lewis, Adolph Hutter, Michael Picard, Marcelo Di Carli, Aaron Baggish, Massachusetts General Hospital, Boston, MA, USA


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 Shoib, 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

11:00 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 Deséeve, 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 Chuan, 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 Transmitial 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
### Non Invasive Imaging - Scientific Session

**Session #621**  
**Controversies in Nuclear Cardiology**

- **Saturday, April 2, 2016, 12:15 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**

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### 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 Schalij, 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 Poos, Abdulaziz Alhethami, 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, Toshikiko 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 Avebadalov, 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 Eltelbany, 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 ≥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.O-CAT Trial
Flemming Javier Olsen, Stine Darkner, Xu Chen, Steen Pehrson, Arne Johannesen, Jim Hansen, Jan Jensen, Jesper Hasstrup Svendsen, Tor Biering-Sorensen, Righospitalet, 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, Banana Rangan, Michele Roesele, 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, Yongseol 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 Pathophysiologic 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 Using Different Echocardiography Machines and Analytical Software
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. Reejhsinghani, Kathryn Brown, Nelson Schiller, Grace Yoon, Ilianne Ginsler, 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, Josephyn Rwembebera, 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 Percutaneous Effusion Undergoing Percutaneous Cesare
Nicola Cosentino, Gianfranco Lardi, Chiara Rossi, Mara Rubin, Valentina Milazzo, Ivana Marana, Marco Moltrasio, Monica De Metrio, Marco Grazì, 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 Tamazar, Gordon Chen, Alina Ghany, Emanuel Forbes, Ana Palace, 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 Tetsuwa Kawai, Hiroki Shionmi, 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
Vigal Abramowitz, Yoshiro 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 Horiiuchi, Shuzou Tanimoto, Jiro Aoki, Kenji Ikuburo, Kenzo Tanabe, Mitsu Memorial Hospital, Tokyo, Japan
Non Invasive Imaging

Non Invasive Imaging - Poster Contributions

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

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, Brian 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 Occl Pathology Scoring
Mitchel Benovoy, Audrey Dione, 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 Hollandier, 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, Brian O Hartaigh, Heidi Gransar, Fay Lin, James Min, Guanglei Xiong, NewYork-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, Brian O Hartaigh, James Min, DeFACTO Investigators, Weill Cornell Medicine, New York, NY, USA

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, Lizi Zhang, Chuncho Xia, Zhigang Yang, Hua Aj, Yingjun Gun, 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, Daniela Andreini, Marco Guglielmo, Anna Solbiati, Saima Mushtag, Andrea Baggiano, Virginia Beltra, Virginia Beltra, Cristina Rota, Andrea Igeren 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 Faher Almahmod, 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, Jae Hoon 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
Myocardial Remodelling and Fibrosis in Nonischaemic Dilated Cardiomyopathy: Insights From Cardiovascular Magnetic Resonance
Andrea Barison, Alessandro Ortalda, Giancarlo Todiere, Giuseppe Vergaro, Chrysanthos Grigoratos, Gianluca Mirrizzi, Alessandro Valleggi, Sara Chiappino, Luigi Pastormerlo, Claudio Passino, Giovanni Donato Aquaro, Michele Emdin, Fondazione Toscana Gabriele Monasterio, Pisa, Italy

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
Somerwile, 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

4:10 p.m.
Question and Answer

4:15 p.m.
Intramyocardial Hemorrhage After Reperfused 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 SS03
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 SS04
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
Non Invasive Imaging - Scientific Session  
Session #661  
Session #1182 
Sunday, April 3, 2016, 9:30 a.m. 
Room S504  
CME Hours: 1.5 /CNE Hours: 1.5 

Q&A: 9:30 a.m. 

Non Invasive Imaging - Poster Contributions  
Session #1183  
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 

Non Invasive Imaging - Poster Contributions  
Session #1182 
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 

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 Ahiman, Justin Rodante, Joseph Lerman, Tsion Aberra, Joanna Silverman, Tarek Aridi, Aasha 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 Amiel, 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 - Scientific Session  
Session #661  
Cardiac Involvement in Systemic Disease  
Sunday, April 3, 2016, 8 a.m. - 9:30 a.m.  
Room S504  
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 Feistritzer, 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 Haack, Dirk van Veldhuisen, Iwan Van Der Horst, Pim van der Harst, University Medical Center Groningen, Groningen, The Netherlands
243 - 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 Baradarian, J. Heywood, Scripps Clinic, La Jolla, CA, 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 Calculication 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 Alshelhle, 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, Takaufumi Oka, Mutsumi Iwamoto, Kensi 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 Hospital, Hellerup, Denmark

250 - Noninvasive Systemic Vascular Resistance and Cardiovascular Outcomes in the Community: The Framingham Heart Study
Chetene 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

251 - 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 Liu, Naifenf 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

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

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

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

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 - Transeosophageal Echocardiography Offers No Incremental Therapeutic Value to a Negative Transthoracic Echocardiogram in Cryptogenic Cerebrovascular Accident
Mark A. Navarro, Manmeet Singh, Arang Samim, Chandra Katkireddy, 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-Eosophageal Echocardiography
Shihwen Liu, Naveen Rajpurohit, William Whitley, John Meisinger, Venkateshwar Polsani, Hassan Sayegh, Xiao Zhou, Helene Houle, Randolph Martin, Federico Mills, Mani Vannan, Piedmont Heart Institute, Atlanta, GA, USA

240 - Right Ventricular (RV) Linear Dimensions on Echocardiography (Echo) Are Reliable Indices of Cardiac Magnetic Resonance (CMR) Quantified Chamber Remodeling: A Multimodality Validation Study
Jiyoung Kim, Aparna Srivinasa, Tracy Paul, Alexi Geevarghese, David M. McQueen, Charles S. Peskin, Meenakshi R, Jiwon Kim, Bella, Bronx Lebanon Hospital Center, Bronx, NY, USA

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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
Alia Giuberti, Lorena Ferrarotti, Cristina Piccinino, Jacopo Zanaboni, Daniele Solà, Paolo Marino, A.O.U. Maggiore della Carità, 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, Tochetchai 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

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Nino E. Landler, Jan Jensen, Tor Biering-Sorensen, Gentofte Hospital, Hellerup, Denmark

250 - Noninvasive Systemic Vascular Resistance and Cardiovascular Outcomes in the Community: The Framingham Heart Study
Chetene 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

251 - 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 Liu, Naifenf 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

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

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

254 - Predictors of Long-Term Clinical Outcome in Patients With Mild Diastolic Dysfunction on Echo
Mikhail Narezkin, Kevin Shah, Ania 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 Bolouzchi, 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 ricetto, 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, Briaia 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, Briaia 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 Chaikriangkrai, Patpong Ungprasert, Hye Yeon Jhun, Faisal Nabi, John Mahmian, 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 Buddoff, 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 Buddoff, Jeffrey J. 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
Erasmo De La Penna-Almaguer, Cesar Ivan Avila, Alejandro Trevino, Luis Perez, Neel Ravela, Indra De La Cruz-Isidro, Yoezer Flores-Sayavedra, Murali Pendela, Edward Ramos-Santiago, Mohammad Badii, Su Min Chang, Hospital Zambrano-Hellion, 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 Assayed by Coronary Computed Tomographic Angiography (CTA)
Muhammad A. Latif, Ricardo Cury, Maham Akhlaq, Emir Veledar, Juan Carlos, 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 of 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
257 - Rheumatic Heart Disease Screening in Schools Through Portable Echocardiography in Brazil: Data From the PROVAR 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. Lauar, Luise C. Barros, Michelle C. Galbas, Lindsay Perlman, Antonio Ribeiro, Craig Sable, Hospital das Cincas da Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, Childrens National Health System, Washington, DC, USA
9:45 a.m.
Rheumatic Heart Disease Screening in Schools Through Portable Echocardiography in Brazil: Data From the PROVAR 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. Lauar, Luise C. Barros, Michelle C. Galbas, Lindsay Perlman, Antonio Ribeiro, Craig Sable, Hospital das Cincas da Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, Childrens National Health System, Washington, DC, USA
9:45 a.m.
Rheumatic Heart Disease Screening in Schools Through Portable Echocardiography in Brazil: Data From the PROVAR 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. Lauar, Luise C. Barros, Michelle C. Galbas, Lindsay Perlman, Antonio Ribeiro, Craig Sable, Hospital das Cincas da Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, Childrens National Health System, Washington, DC, USA
9:45 a.m.
Rheumatic Heart Disease Screening in Schools Through Portable Echocardiography in Brazil: Data From the PROVAR 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. Lauar, Luise C. Barros, Michelle C. Galbas, Lindsay Perlman, Antonio Ribeiro, Craig Sable, Hospital das Cincas da Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, Childrens National Health System, Washington, DC, USA
9:45 a.m.
Rheumatic Heart Disease Screening in Schools Through Portable Echocardiography in Brazil: Data From the PROVAR 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. Lauar, Luise C. Barros, Michelle C. Galbas, Lindsay Perlman, Antonio Ribeiro, Craig Sable, Hospital das Cincas da Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, Childrens National Health System, Washington, DC, USA
9:45 a.m.
Rheumatic Heart Disease Screening in Schools Through Portable Echocardiography in Brazil: Data From the PROVAR 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. Lauar, Luise C. Barros, Michelle C. Galbas, Lindsay Perlman, Antonio Ribeiro, Craig Sable, Hospital das Cincas da Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, Childrens National Health System, Washington, DC, USA
9:45 a.m.
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. Arnaout
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 #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
François 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 SS03
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 SS04
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 Durbala
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

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 Ioren 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 Morgenstem, 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
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, Ipppei 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, Mitsuuru 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, Yvesseina Ortega, Shirshaj S. Susarla, Zeus Fernandez, Nichell Megowan, Negin Nezarat, Sina Rahmani, Mitsuuru Kanisawa, Indre Ceponiene, Alexander Broersen, Pieter Kilsaarlo, Jeff 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 Grani, Fran Mikulicic, Beatrice Hirt-Moch, Michael Madsen, Jan Vontobel, Oliver Gaemperli, Ronny Buechel, Philipp Kaufmann, University Hospital Zurich, Zurich, 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?
Saqer Alkharbashaseh, Ayman Ayache, Shadi Al Halabi, Arnav Kumar, Jamal Mahir, 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, Tsoni Aberra, Balaji Natarajan, Tauifq 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, Gliwoo Choi, Hyun Jin Kim, Arjun Roy, Tran Nguyen, Michiel Schap, 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 Negusei, 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
Teru 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 Intravascular 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
Naras 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 Ghoshshajra, 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. Cartlidge, 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 Zet, Martin Schalji, Arthur Scholte, Leiden University Medical Center, Leiden, The Netherlands

263 - Assessment of Missing Links in Atherosgenesis: 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, Brian O. Hartaigh, Daniel Berman, Matthew Budoff, Stephen Achenbach, Allison Dunning, Tracy Callister, Augustin DeLago, Hugo Marques, Ronen Rubinstein, Mouaz H. Al-Mallah, Daniele Andreini, Filippo Cademartiri, Kavitha Chinnayian, Martin Hadamitzky, Gudrun Feuchtwang, 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, Angad 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
Hirotaka Ieiri, Nobutaka Ikeda, Hisao Haru, 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, Fuku-Ken Saiseikai Hospital, Fuku, Japan

269 - Correlation of Wall Shear Stress and Axial Plaque Stress Between Models Derived From CT and OCT Data
Gilwoo Choi, Kengo 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 Aijaraju, 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, Namisk 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 Aggelis, Athanasios Angelis, Konstantinos Toutouzas, Dimitris Tousoulis, 1st Cardiology Department, Hippokration 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
Hiromitsu Seno, Kenya Kusunose, Hirotugu Yamada, Yoshitomo Saijo, Susumu Nishio, Yukina Hirata, Takayuki Ise, Koji Yamaguchi, Shusuke Yagi, Takeshi Soeki, Tetsuo Wakatsuki, Sata Masataka, Department of Cardiovascular Medicine, Tokushima University Hospital, Tokushima, Japan

257 - Single Site Experience With Transesophageal Echocardiographic Guidance of Dual Lumen Veno-Venous 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 Villalblanca Spinneto, 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, Yanir 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, Hyung-Lyoung Kim, Hyue Mee Kim, Jun-Bea 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

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

ACC.16 | Program PDF | Non Invasive Imaging | Page 18 of 24
222 - Maturational Patterns of Ventricular Septal Deformation in Preterm and Term Infants in the First Month of Life
Philip Levy, Eda Cristina Abuchalibe, 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-Anular 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 Piettarello, 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 Takashio, 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, Navjot 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, Melhia 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, Yoshihi Matsuo, Yasushi Ino, Takeshi 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, Pelbreton Balfour, Mayank Kansal, Gregory Talavera, Krista Perreire, 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
J Jacqueline Shuplock, Matthew Israel, Haydar Frangoul, David Parra, Jonathan Somoslow, Monroe Carell Jr. Children’s Hospital at Vanderbilt, Nashville, TN, USA

Valentin Suma, Farhan Bajwa, Suraj Sookhu, Jyothy J. Puthumanata, Isam A. Mikati, Arif Jivan, Ajay Yadlapati, Lakshmi Muthukumar, Renae Toole, Edgar Argullian, Richa Nahar, Jyest Bhinder, Aasha Gopal, Faraq O. Achaudhry, Hofstra North Shore-LIJ School of Medicine, Manhasset, NY, USA, Icahn School of Medicine at Mount Sinai, NY, NY, USA

236 - Simultaneous Carotid Ultrasoundography 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
Randall C. Thomas, Qizi Fang, Dwight Bbby, 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 Ari Study
Alexandra Gonzalez, Chung-Lieh Hung, Brian Claggett, Kotaro Nochioka, Susan Cheng, Suma Konety, Dalane Kitzman, Aml 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, Masaki 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 Indexes
K. Addetta, 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
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 /CME 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 Adre/View 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, Kartikeyan Ananth, Michaëla 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, Alexandros Georgakopoulos, Nikoletta Pianou, Pavlos Kafouris, Sofoklis Trachanellas, Nikolaos Patelis, Nikolaos Bessias, Konstantinos Filis, Chris Kloman, Efstratios Patsouris, Elias Siros, George Spyrou, Constantina Aggel, Eleftherios Tsiamis, Dennis Kokkinos, 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 Hakui, Tatsuhisa Ozaki, Yoshihiro Sato, Masahiro Seo, Eiji Fukuhara, Masatake Fukunami, Osaka General Medical Center, Osaka, Japan

Trine K. Lauridsen, Kasper Iversen, Nikolaj Ihlemann, Philip Hasbæk, Annika Loft Jakobsen, Anne Kii Berthelsen, Anders Dahl, Daniela Dejanovic, Elisabeth Albrecht-Beste, Jann Mortensen, Andreas Kjær, 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 Fughii, Javier Gomez, Tania Campagnoli, Marwan Wassouf, Amjad Ali, Rami Doukkly, 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 Kornos, 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, Jasmin S. van Campen, Karin de Boer, Hendrik Harms, Marc Huisman, Pieter Rajmakers, 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 Computed Tomography Imaging Can Quantify Regional Distribution of 99mTcTechnetium Pyrophosphate Uptake in Patients With Transthyretin Cardiac Amyloidosis
Ross Ehmke, Rachelle 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, Rachelle 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, Taranek 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
Basmah Safdar, Gail D’Onofrio, James Dzirasa, 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
Arnab Kumar, Edilira Yzeiraj, Lin Lin, Kmi 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
Samomrat 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 Bieging, 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, Mohmed 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, Pharmacotherapeutics Outcomes Research Center, University of Utah, College of Pharmacy, Salt Lake City, UT, USA

Lingyi Wen, Zhigang Yang, Chunchoa Xia, Litzi Zhang, Hua Ai, Yingkus 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, Chin 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

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, Viviana Taqueti, Ankur Gupta, Sara Seidelmann, Nishant Shah, Jon Hainer, Courtney Foster, Meagan Harrington, Fred Costantino, Mandeep Mehra, Sharmila Durbala, 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, Vivas Vareranna, 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 Steiger, Sharmila Durbala, 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 SS03
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 SS03
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.
Pre operative 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, Vasconcellos D. Henrique, Anderson Armstrong, Satoru Kishi, Bharath Ambale Venkatesh, Cora Lewis, Pamela Schreiner, Stephen Sydney, 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, Amjad Mentias, Krishna Patel, Amjad Abdallah, 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