

**5th Annual Scientific Meeting
of the Society of Cardiovascular Computed Tomography**

**Siemens Outstanding Academic Research Award Presentations
Friday, July 16, 10:30 am - 12:00 pm**

10:30 - 10:45

Aortic Valve Stenosis: CT Contributions to Diagnosis and Treatment – Tobias Pfleederer

10:45 – 11:00

Clinical impact on post-test ('downstream') resource utilization following cardiac CT angiography compared to currently available non-invasive stress tests in symptomatic patients – Edward Hulten

11:00 – 11:15

Emerging evidence of the clinical and management impact of coronary artery calcification beyond standard cardiac risk factors – Jamal Rana

11:15 – 11:30

Quantitative and Qualitative Analysis and Interpretation of CT Perfusion Imaging – Carolina Valdiviezo-Schlomp

11:30 – 11:45

Emerging Technologies: Molecular Imaging of the Cardiovascular System – Garry Choy

11:45 – 12:00

Discussion

**Oral Session I: Acquisition and Reconstruction Techniques
Abstracts 01-06
Friday, July 16, 10:30 am - 12:00 pm**

10:30 - 10:45

Allmendinger T, Schmidt B, Flohr T.

From No-Pitch to High-Pitch – A Simulation Study Comparing Dose in Different Cardiac Scan Modes

10:45 – 11:00

Weininger M, Nance J, Henzler H, Schmidt B, Costello P, Schoepf UJ.

High Temporal Resolution Dual-Energy CT of the Heart Using a Novel Hybrid Image Reconstruction Algorithm – Initial Experience

11:00 – 11:15

Tanami Y, Jinzaki J, Matsumoto K, Yamazaki A, Imai Y, Dutta S, Kuribayashi S.

Improvement of Visualization of Coronary Lumen with Calcified Plaque by Using an Ultra Fast kVp Switching Spectral Scanning and Imaging in X-ray Computed Tomography - A Phantom Study

11:15 – 12:00

Iterative Reconstruction in Image Space (IRIS) in Cardiac Computed Tomography: Initial Experience

Bittencourt M, Schmidt B, Seltmann M, Muschiol G, Ropers D, Daniel W, Achenbach S.

12:00 – 12:15

Gramer B, Hein F, Meyer TH, Hadamitzky M, Bischoff B, Schömig A, Martinoff S, Hausleiter J.

Iterative Image Reconstruction in High-Pitch Helical Cardiac CT Angiography

12:15 – 12:30

Renker M, Ramachandra A, Schoepf UJ, Weininger M, Tipnis S, Huda W, Henzler T.

Comparison of Statistical Iterative and Filtered Back Projection Image Reconstruction Techniques for the CT Assessment of Coronary Artery Stents

There will be two poster sessions. They will take place on Friday, July 16, and on Saturday, July 17. Both sessions will be from 1:00 pm – 1:45 pm, during which you must be present to present your poster. Expert moderators are assigned to the session, and will conduct informal question-and-answer sessions.

Posters may be put up beginning at 2:00 pm on Thursday, July 15, and must be displayed by 8:00 am, Friday, July 16. Posters for the Friday session may remain posted until 6:00 pm, Friday, July 16, after which they must be taken down. Remaining posters will be discarded by the staff.

Poster Session I: Coronary Calcium

Abstracts 07-14

Friday, July 16, 1:00 pm - 1:45 pm

Santana-Netto PV, Nomura CH, Kay F, Diniz F, Teles G, Sasdelli R, Passos R, Chate R, Szarf G, Funari M.

Comparison of Calcium Scores in Exams with 64 and 320 Rows of Detectors Computed Tomography Scanners

Zopf Y, Seltmann M, Annika S, Marwan M, Pflederer T, Muschiol G, Achenbach S.

Relationship Between Homocysteine, B Vitamin Serum Levels and Coronary Atherosclerosis in Patients with Atypical Chest Pain

Motoyoma S, Tahara A, Mekhail S, Thonar B, Malik S, Narula J, Saremi F.

Coronary Calcium Quantification Using Post-Contrast CT Angiography

Rinehart S, Vazquez G, Qian Z, Joshi P, Krivitsky E, Kalynych A, Voros S.

First Demonstration by Coronary CT Angiography that Increased Low-Density Non-Calcified and Calcified Plaque is Mediated by Increasing Levels of Apo-B Containing Lipoprotein Particles and Results in Worse Luminal Stenosis at Months

Bholat T, Nasir K, Kiramijyan S, Kuo A, Pirouz S, Budoff MJ.

Impact of Family History of CHD and Progression of Calcified Coronary Plaque

Shantouf R, Ahmadi N, Iqbal S, Zeb I, Noori N, Flores F, Kalantar-Zadeh K, Budoff MJ.

Absolute Annual Change in Coronary Artery Calcium Among Hemodialysis Subjects

Pirouz S, Nasir K, Bholat T, Kiramijyan S, Kuo A, Budoff MJ.

Incidence and Progression of Coronary Artery Calcium Score in Obese Patients with Low Risk of Coronary Heart Disease

Budoff MJ, Black-Shinn J, Hokanson J, Nasir K, Barr RG, Lopez-Garcia C, Casaburi R.

Presence of Coronary Artery Calcium and relation to FEV1 and COPD Status

Poster Session II: Atherosclerosis I

Abstracts 15-22

Friday, July 16, 1:00 pm - 1:45 pm

Goh V, Tan SW, Adams J.

Coronary Atherosclerosis In Rural and Urban Ethnic Chinese Subjects

El Shahawy M, Cohn J.

Novel Approaches for Risk Stratification and Management of Asymptomatic Metabolic Syndrome Subjects: Is Metabolic Syndrome a Marker of Coronary Artery Disease in All?

Siegel E, Techasith T, Major GP, Hoffmann U, Truong QA.

Aortic Distensibility and Its Relationship to the Presence and Morphology of Coronary Atherosclerosis Using MDCT

Cordova F, Banchs J, Durand JB, Yusuf SW, Gladish G, Daher IN.

Utility of Coronary Artery Calcium Score in Identifying Ischemic Etiology of Cardiomyopathy in Cancer Patients

Ellis C, Edwards C, Legget M, van Pelt N, Ormiston J, Christiansen J, Winch H, Osborne M, Gamble G.

New Zealand Patients with a Family History of Cardiovascular Disease Are More Likely to be Above the 90th Percentile of an Age and Sex-Matched Population: Potential Benefits of the the Calcium Scoring Tool

Ahmadi N, Hajsadeghi F, Nabavi V, Baskett M, Ebrahimi R, Budoff MJ.

Relation of Pulse Wave Velocity Measured by Computed Tomography with Coronary Atherosclerosis: Validation of New Method

Ahmadi N, Mao SS, Kiramijyan S, Gao Y, Hajsadeghi F, Flores F, Budoff MJ.

Coronary Artery Calcium and Bone Mineral Density Measured Computed Tomography: Impact of Age and Gender

Hamid N, Keng F, Cheah FK, Chua T, Tan SY.

Comparative of Prevalence of Coronary Artery Calcification in Patients with Normal ⁹⁹Tcm-MIBI Myocardial SPECT Versus Calcium Score

Poster Session III: Atherosclerosis II

Abstracts 23-30

Friday, July 16, 1:00 pm - 1:45 pm

Choi JH, Song YB, Hahn JY, Choi SH, Gwon HC, Min JK, Choe YH.

Three-Dimensional Quantitative Volumetric Analysis of Chronic Total Occlusion Plaque Using Coronary Multi-Detector Computed Tomography

Krishnan U, Prakash P, McNerthney M, Ward N, Malhotra V.

Chronological Age Versus Biological Age: Better Predictor of Cardiovascular Risk

van Velzen JE, Schuijf JD, de Graaf FR, Spano F, Jukema JW, Schalij M, Kroft L, de Roos A, van der Wall E, Bax JJ.

Comparison of Coronary Plaque Imaging as Evaluated by 320-row Multidetector Computed Tomography and Virtual Histology Intravascular Ultrasound

Kadiyala M, Yoon A, Passick M, Hazel R, Pollack S, Wang Y, Reichek R.

Plaque Morphology on Coronary CT Angiography; Relationship to Perfusion Reserve by Quantitative Adenosine Stress Cardiac Magnetic Resonance Imaging

Ahmed, R Miller JM, Vavere AL, Niinuma H, Dewey M, Rochitte CE, Shapiro E, Hoe J, Paul N, Brinker J, Clouse ME, Lima JAC, Zadeh AA.

Association Of Aortic Stiffness With Coronary Atherosclerotic Plaque Burden And Severity Of Coronary Artery Disease

Choi TY, Zeb I, Pagali S, Hamirani Y, Gupta M, Hacioglu Y, Sourayanezhad S, Flores F, Budoff MJ.
Coronary Plaque Burden and Composition in Relation to Cardiac Risk Factors in Cardiac Computed Tomography

Lin FY, LaBounty TM, Dunning A, Gomez M, Koduru S, Choi JH, Callister TQ, Shaw LJ, Berman DS, Min JK.
Relationship Between Left Ventricular Mass and Non-obstructive Coronary Artery Disease by 64-slice Coronary Computed Tomographic Angiography.

Hamilton-Craig C, Strugnell W, Raffel C, Walters DL, Slaughter R.
CT Angiography with Cardiac MRI Provides Non-Invasive Functional and Anatomical Assessment in Newly Diagnosed Heart Failure

Poster Session IV: Acute Coronary Syndromes / Vulnerable Plaque

Abstracts 31-38

Friday, July 16, 1:00 pm - 1:45 pm

Wanahita N, Altstein S, Friedmann P, Giedd K, Bergmann S.
Prevalence of Subclinical Coronary Artery Disease in New York City Firefighters as Predicted by Coronary Artery Calcium Scoring

Branch K, Strote J, Shuman W, Mitsumori L, May J, Rue T, Warren B, Jobe K, Dubinsky T, Caldwell J.
Diagnostic Accuracy of Whole Chest ECG-Gated CT for Coronary Artery Disease in Emergency Department Patients with Potential Acute Coronary Syndrome

Carrascosa P, Capuñay C, Deviggiano A, Lewkowicz M, Carrascosa J.
Prevalence of Severe Coronary Artery Disease in Patients with Family History but Unknown Personal Evidence of Coronary Disease Detected by 64-row Coronary CT Angiography

Taylor CM, Young A, Yadegari A, Heilbron B, Leipsic JA, Hoffmann U, Ramanathan K.
Is Plaque Morphology the Culprit in Larger Infarct Size in South Asians?

Nijjar V, Jain N, Helmcke F, Glancy D.
Predictive Value of Surface Electrocardiogram Prior to Coronary Computed Tomography in Patients Presenting with Chest Pain

Ramadan A, Aboul-Enein F.
Noncoronary Findings on Multislice CT Angiography in Patients with Acute Chest Pain

Vazquez-Figueroa JG, Rinehart S, Qian Z, Krivitsky E, Joshi P, Voros S.
First Demonstration by Contrast-Enhanced CT Coronary Angiography that Lipoprotein Parameters Correlate with Plaque Composition in the Entire Coronary Tree

Kido T, Inaba S, Kido T, Hosokawa K, Kurata A, Matsuda K, Watanabe K, Yamamoto M, Higashino H, Mochizuki T.
Possibility of Coronary Plaque Assessment Opened by Test Injection Method Using Diluted Injection Protocol

Poster Session V: Ventricular Function

Abstracts 39-46

Friday, July 16, 1:00 pm - 1:45 pm

Crossett M, Schneider-Kolsky M, Troupis J.

CT Densities of the Left Ventricle Myocardium in Normal Coronary CTA Studies Using a 320 slice CT Scanner

Alqaisi F, Zaidan M, Alqarqaz M, Poopat C, Al-Mallah M.
Inter-observer Variability of Left Ventricular Volumes and Ejection Fraction Assessment by Retrospectively Gated Cardiac CT

Hovanesyan A, Nair S, Tellalian D, Budoff MJ.
Comparison of Cardiac Chamber Size, Mass, and Function Acquired by Echocardiography (Echo) and Computed Tomographic Angiography (CTA). The CONCURENT Study

Sato A, Koji N, Naoyuki H, Jun F.
Relationship Between Fatty Acid Metabolism by Iodine-23 BMIPP Scintigraphy, Coronary Stenosis and Systolic Function by Coronary CT Angiography in Patients with Coronary Artery Disease

Ahmadi N, Mao SS, Hajsadeghi F, Hacıoglu Y, Flores F, Gao Y, Ebrahimi R,² Budoff MJ.
Left and Right Ventricular Dysfunction Measured by Computed Tomography Angiography is Associated with the Severity of Coronary Artery Disease

Nakazato R, Tamarappoo BK, Cheng VY, Shmilovich H, Gurudevan S, Dey D, Hayes S, Thomson L, Friedman J, Berman DS.
Assessment of Left Ventricular Regional Wall Motion with Dual-Source CT Using ECG-based Dose Modulation in Comparison to Two-Dimensional Transthoracic Echocardiography

Dughman S, Cabuay B, Johnson F, Sigurdsson G.
Paradoxical Left Ventricular Assist Device Inflow Cannula Obstruction

Tanawuttiwat T, Zelinger A, Tatoes A, Trivedi D.
Utility of Cardiac Computed Tomography with Left Ventricular Device with Mechanical Prosthetic Valve

Poster Session VI: Automation

Abstracts 47-54

Friday, July 16, 1:00 pm - 1:45 pm

Banerji D, Ptaszek L, Taylor CM, Fontes J, Kriegel M, Irlbeck T, Siegel E, Hoffmann U, Truong QA.
Utility of Nonspecific Resting Electrocardiographic Features for Detection of Coronary Artery Stenosis by Computed Tomography in Acute Chest Pain Patients: From the ROMICAT Trial

Shmilovich H, Cheng VY, Tamarappoo BK, Nakazato R, Dey D, Xu Y, Friedman J, Thomson L, Berman DS.
Improved Accuracy of Coronary Artery Calcified Plaque Stenosis Severity Assessment Using a Luminal-Hounsfield-Unit-Based Window Setting

Feuchtner G, Loureiro R, Bezerra H, Pflederer T, Yun CH, Friedrich G, Sarwar A, Marwan M, Brady TJ, Achenbach S, Cury RiC.
Automated 3D Coronary Plaque Volume Quantification: Dual Source Computed Tomography Compared to Intravascular Ultrasound

Arnold B, Budoff MJ, Xiang P, Child J, Mao SS.
Automated Coronary Calcium Mass Scoring with Patient Specific Hybrid Calibration, Dual Thresholds, 3-D (8 pt) Voxel Connectivity, and Statistical Plaque Definitions.

Daubert M, Malhotra V, Ferraro S, Goldenberg R, Kam M, Wu H, Kam D, Minton A, Poon M.
Computer-aided Analysis of 64-slice Coronary Computed Tomography Angiography: A Comparison with Manual Interpretation

Anders K, Petit I, Achenbach S, Pflederer T.
Diagnostic Utility of Automated Stenosis Detection in Dual Source CT Coronary Angiography as a Stand Alone or Add-on Tool

Malhotra V, Poon M, Krishnan U, Mcnerthney M, Goldenberg R, Ward N.
Computer Aided Detection for Coronary CT Angiography in Low to Intermediate Risk Population

Mehta C, Chandra S, Newby B, Mor-Avi V, Vannier M, Lang RM, Patel AR.
Validation of an Automated Cardiac CT Angiography Analysis System: Initial Experience at an Academic Center

Poster Session VII: Coronary CT Angiography I

Abstracts 55-62

Friday, July 16, 1:00 pm - 1:45 pm

Cerci R, Vavere AL, Dewey M, George RT, Di Carli M, Rochitte CE, Chen M, Schuijf JD, Niinuma H, Paul N, Clouse ME, Lima JAC, Zadeh AA.
Computed Tomography Image Acquisition Protocol Adherence in an International Multicenter Study: The CORE-320 Run-in-Phase.

Cheng VY, Tamarappoo BK, Dey D, Paz W, Pimentel R, Friedman J, Berman DS.
Successful Prospective Gating During Atrial Fibrillation for CT Visualization of the Left Atrium, Pulmonary Veins, and Major Coronary Arteries

Eicher W, Niedermayer M, Hausegger KA.
Cardiac DSCT– Ectopic Beats During Coronary Calcium Scan: Impact on Diagnostic Performance and Diagnostic Accuracy of Subsequent CT Angiography.

Ahmed M, Qureshi W, Swadia T, Abdul-Nour K, Al-Mallah M.
Temporal Trends in the Diagnostic Accuracy of Coronary CT Angiography

Choi TY, Woo V, Gupta M, Sourayanezhad S, Mao SS, Flores F, Budoff MJ.
Comparison of Iodixanol 320 (Visipaque[®]) versus Iohexol 350 (Omnipaque[®]) in Imaging Quality During 64-Slice Multidetector Computed Tomography Angiography

Choi JH, Min JK, Mendoza DD, LaBounty TM, Lin FY, Ariaratnam N, Koduru N, Gomez M, Dunning A, Gwon HC, Oh J, Choe YH.
Contrast Opacification Gradient of 64-Detector Row Coronary Computed Tomography in Multivessel Coronary Artery Disease

Haque M, Gottam N, Fennessy M, Del Priore J, Corrigan K, Metoyer R, Dajani K.
Assessing the Prevalence of Non-Diagnostic Studies in 64-MDCT Coronary Angiography Over a 36 Month Period

De La Pena-Almaguer E, Olazabal-Esguerra A, Torre-Amione G, DeFrance T.
Comparison of Image Quality Parameters In Prospective Coronary Dual Source CTA As Compared To ECG Dose-Modulated Retrospective Scanning

Poster Session VIII: Radiation Exposure I

Abstracts 63-70

Friday, July 16, 1:00 pm - 1:45 pm

Ball P, Donnelly P, Glass P, Kelly R, Higginson D, Hanley P.
Revisiting Calcium Scoring: Can the Calcium Score Actually Save Dose in Retrospective Gated Cardiac CTA?

Dewey M, Zimmermann E, Hamm B.
Reduction of Radiation Dose of 320-Row Coronary Computed Tomography Angiography Through Prior Coronary Calcium Scanning

Anders K, Engert C, Achenbach S, Uder M, Kuefner MA.
Effect of Spiral Data Acquisition Protocols on X-Ray Exposure in Coronary CT Angiography in Daily Clinical Routine – A Retrospective Statistical Analysis

Ho J, Barlow C, Reinhardt D, Wade W, Cannaday J.
Effect of Body Mass Index on the Image Quality and Positive Predictive Value of 100 kV Coronary CT Angiography

Capuñay C, Carrascosa P, Deviggiano A, Vallejos J, Carrascosa J.
Impact of Effective Radiation Dose Reduction Using Prospective ECG-gated 64-row Coronary CT Angiography in the Daily Practice

Bauer RW, Lehnert T, Deseive S, Vogl T.
Dose Levels at Coronary CT Angiography – A Comparison of Dual Energy-, Dual Source- and 16-slice CT

Han BK, Lindbergh J, Giese R, Schwartz R, Lesser JR.
Coronary CT Angiography Can Be Successfully Performed at a Low Radiation Dose in Children Using a Dual Source Scanner

Atalay M, Walle N, Grand D, Mayo-Smith W, Cronan J, Egglin T.
Scan Length Optimization for Pulmonary Embolism at CT Angiography: Analysis Based on the 3-dimensional Spatial Distribution of Emboli

Poster Session IX: Atria

Abstracts 71-78

Friday, July 16, 1:00 pm - 1:45 pm

Mao SS, Pagali S, Hamirani Y, Chen A, Chau G, Gao Y, Budoff MJ.
Left and Right Atrial Measurements by 64 slice Multi-Detector Computed Tomography for Normal Individuals in Comparison to Patients with Coronary Artery Disease

Passen E, Nicholson D, Nicholson L.
Elliptical Geometry of Left Atrial Appendage Results in Underestimation of Orifice Area by Transesophageal Echocardiography Compared to Multidetector Computed Tomography with Clinical Implication for Placement of Occlusion Devices.

Bhella P, Wheelan K, Schussler JM.
Left Atrial Volume by 64-Slice CT and Failure Rates in Atrial Fibrillation Ablation: 3 Year Follow-Up

Choi HY, Park MJ, Jeon GN, Choi HC.
Quantitative Assessment of Left Atrial Reservoir, Conduit, and Booster Pump Function by 64-Slice Cardiac CT in the Control and the Hypertensive Patients

Yong H, Lim HE, Kim YK, Woo OH, Kang EY.
Assessment of Left Atrial Volumes and Transport Function by Cardiac CT in Patients with Atrial Fibrillation; Comparison with Echocardiography

Park MJ, Choi HY, Jeon GN, Choi HC.
Effects of Aging on Left Atrial Function Assessed by 64-slice Cardiac CT

Chughtai H, Ntim W, Johnson T, Vaughn J, Carr JJ, Entrikin DW.

Association of Left Atrial Appendage Size by Multi-Detector Cardiac Computed Tomography with Markers of Diastolic Dysfunction

Kang JW, Hong GS, Lim TH.

Role of Cardiac CT for Successful Radio Frequency Cardiac Ablation (RFCA) of Pulmonary Veins

Poster Session X: Incidental Findings/LAA Thrombus

Abstracts 79-86

Friday, July 16, 1:00 pm - 1:45 pm

Marques H, Gonçalves P, Costa N.

Cardiac CT Before Atrial Fibrillation Ablation - Evaluation of The Left Atrial Appendage and The Importance of a Second Acquisition

Wilson S, LaBounty TM, Lin FY, Weinsaft J, Choi JH, Koduru N, Min JK.

Combined Quantitative and Qualitative Methods for Detection of Left Atrial Appendage Thrombus Improve the Diagnostic Accuracy of Gated Computed Tomography in Comparison to Transesophageal Echocardiography

Kim HY, Hur J, Kim YJ, Lee HJ, Choi BW.

Dual-Source Cardiac Computed Tomography for Detection of Left Atrial Appendage Thrombus in Patients with Stroke; A Preliminary Report

Stone K, Furgerson J, Codispoti C.

Delayed-Phase Multi-Detector CTA to Rule Out Left-Atrial Appendage Thrombus Prior to Catheter Ablation of Atrial Fibrillation in a Patient with an Abnormal Trans-Esophageal Echocardiogram

Matcheswalla S, Noureddine N, Gress T, Blom P, Sias T.

Prevalence of Noncardiac Findings in Patients Identified with Coronary Artery Disease by Coronary Computed Tomography Angiography

Hacioglu Y, Gupta M, Zeb I, Budoff MJ.

Prevalence and Clinical Importance of Non-coronary Cardiac Findings on Coronary CT Angiography

Siegel E, Chung JH, El-Sherief AH, Little BP, Rojas CA, Abbara S, Hoffmann U.

Incidental Pulmonary Nodules Detected on Cardiac CTA in the Setting of Non-acute Suspected or Known Coronary Artery Disease: Projected Number, Cost, and Increased Radiation Dose

Gonzalez C, Carrillo F.

Prevalence of Incidental Extra-Cardiac Disease in Patients Undergoing Coronary CT Angiography.

Oral Session II: Coronary Atherosclerosis and Prognosis

Abstracts 87-92

Friday, July 16, 1:45 pm - 3:15 pm

1:45 – 2:00

Choi SI, Chun EJ, Jin KN, Kim JA.

Coronary Atherosclerosis in Young Adults: Prevalence, Plaque Characteristics and Predictors with Coronary CT Angiography - Preliminary Reports (Assessment of Coronary Atherosclerosis in Young Adults with Coronary CT Angiography; ACACIA Study)

2:00 – 2:15

Schwartz RS, Schwartz J, Merkel-Kraus S, Duval S, Pink V, Peichel G, Roberts W, Oesterle S, Knickelbine T, Longe T, Flygenring B, Pastorius C, Lesser JR.

Elite Athleticism and Coronary Artery Plaque Formation: A Prospective Multidetector CT Angiography Study of Men Competing in Marathons for 25 Consecutive Years

2:15 – 2:30

Dowe D.

Using Coronary CT Angiography as a Screening Exam for Coronary Artery Disease in a At Risk Occupation Population.

2:30 – 2:45

Hadamitzky M, Meyer TH, Hein F, Bischoff B, Martinoff S, Schömig A, Hausleiter J.

Prognostic Value of Coronary Computed Tomographic Angiography in Asymptomatic Patients

2:45 – 3:00

Williams KA, Kim J, Holohan K.

Frequency of Unrecognized Coronary Calcification on Non-Cardiac Chest Computed Tomography

3:00 – 3:15

Leber A, Greif M, Becker A.

Elevated Volumes of Pericardial Fat, Inflammation, Hypoadiponectinemia and a Noncalcified Coronary Plaque Phenotype Are Characteristics of Lean Patients With Coronary Artery Disease and May Explain the Obesity Paradox

Oral Session III: Coronary Calcium

Abstracts 93-98

Friday, July 16, 1:45 pm - 3:15 pm

1:45 – 2:00

Pirouz S, Nasir K, Kiramijyan S, Kuo A, Bholat T, Budoff MJ.

Progression of Coronary Artery Calcium Among 1834 Individuals with an Initial Zero Score by Electron Beam Tomography

2:00 – 2:15

Chung G, Lang RM, Rosenson A, Lodato JA, Patel AR.

Is There a Relationship Between Obesity and Coronary Artery Calcification: A Study of Self-Referred Calcium Score Patients

2:15 – 2:30

Bekele D, Joshi P, Vazquez G, Marvasty I, Qian Z, Krivitsky E, Brown C, Rinehart S, Miller JM, Voros S.

Coronary Artery Calcium Scanning Reveals Significant Atherosclerosis in Asymptomatic, First-Degree Relatives of Patients with Coronary Artery Disease despite Low Framingham, Reynolds, and PROCAM Risk Scores

2:30 – 2:45

Alqarqaz M, Zaidan M, Swadia T, Qureshi W, Nour K, Al-Mallah M.

Thoracic Aortic Calcification is not a Predictor of Atherosclerosis in Symptomatic Patients with Zero Coronary Artery Calcium

2:45 – 3:00

Johnson K, White R.

Coronary Calcium Scoring by Dual Energy Computed Tomographic Coronary Angiography

3:00 – 3:15

Ambrose MS, Lima JAC, Lardo AC, George RT.

Delayed Enhanced CT Viability Imaging Accurately Measures Coronary Calcium Burden While Reducing Overall Radiation Dose.

Oral Session IV: Featured Oral Abstract Session: Radiation Exposure in Cardiac CT

Abstracts 99-104

Saturday, July 17, 8:30 am - 10:00 am

8:30 – 8:45

Engel LC, Ghoshhajra B, Major GP, Techasith T, Sala ML, Corsini EM, Banerji D, Do S, Liu B, Kim MS, Abbara S, Hoffmann U, Kalra MK, Brady TJ.

5-Year Dose Reduction Experience Using Individualized Patient Protocols

8:45 – 9:00

Hadamitzky M, Achenbach S, Malhotra V, McNerthney M, Martinoff S, Schömig A, Hausleiter J.
International Registry Monitoring Cardiac CT Radiation Dose

9:00 – 9:15

Hausleiter J, Meyer TH, Martuscelli E, Spagnolo P, Yamamoto H, Carrascosa P, Anger T, Lehmkuhl L, Alkadhi H, Hein F, Hadamitzky M, Bischoff B, Martinoff S, Kuse M, Schömig A, Achenbach S.

Prospective Randomized Trial On Radiation Dose Estimates Of CT Angiography In Patients Scanned With A Sequential Scan Protocol - The PROTECTION III Study

9:15 – 9:30

Leipziger JA, LaBounty TM, Heilbron B, Mancini GBJ, Taylor CM, Johnson M, Lin FY, Gomez M, Min JK.
A Prospective Randomized Trial Assessing the Impact of Tube Voltage Reduction on the Diagnostic Accuracy of Coronary Computed Tomography

9:30 – 9:45

Kuefner MA, Anders K, Achenbach S, Sommer M, Schwab SA, Löbrich M, Uder M.

Effect of CT Scan Protocols on X-Ray Induced DNA Double-Strand Breaks in Blood Lymphocytes of Patients Undergoing Coronary CT Angiography

9:45 – 10:00

Raff GL, Chinnaiyan K, Abidov A, Al-Mallah M, Ananth K, Girard S, Goraya T, Kazerooni E, Peyser P, Song T, Share D.

Sustained Radiation Dose Reduction in the Michigan Blue Cross Blue Shield Cardiac Computed Tomography Registry

Oral Session V: Valvular Disease and Hemodynamics

Abstracts 105-110

Saturday, July 17, 8:30 am - 10:00 am

8:30 – 8:45

Feuchtnner G, Friedrich G, Mueller S, Bonaros N, Leschka S, Plass A.

Evaluation of Prosthetic Valves and ASD Occluders with Multidetector Computed Tomography: A Comparative Study

8:45 – 9:00

Pfleiderer T, Seltmann M, Marwan M, Rost C, Ropers D, Schepis T, Daniel WG, Achenbach S.

The Oval Anatomy of the Left Ventricular Outflow Tract Explains the Mismatch between Computed Tomography and Echocardiography in Assessment of the Orifice Area in Aortic Valve Stenosis

9:00 – 9:15

Liew G, Lorraine B, Das R, Worthley S.

Assessment for Transcatheter Aortic Valve Implantation: Utility of 128-detector CT as Initial Screening Tool

9:15 – 9:30

Leber A, Kasel M, Ischinger T.

Preprocedural MSCT Derived Parameters Predicting Complications and Adverse Events After Percutaneous Aortic Valve Replacement

9:30 – 9:45

Hacioglu Y, Gupta M, Mao SS, Budoff MJ.

The Assessment of Left Ventricular Diastolic Function by Multi-detector Computed Tomography in Patients with Left Ventricular Systolic Dysfunction

9:45 – 10:00

Meave A, Alexanderson E, Melendez G, Kimura E, Pale R, Vasquez J, Arredondo C, Santiago R.
Demonstration of Endocarditis Complications by Computed Tomography Angiography (CTA).

Toshiba Young Investigator Award Presentations

Abstracts 111-115

Saturday, July 17, 10:30 am – 12:00 pm

10:30 - 10:45

Rogers IS, Banerji D, Siegel E, Truong QA, Ghoshhajra B, Irlbeck T, Abbara S, Gupta R, Benenstein R, Choy G, Avery L, Novelline R, Bamberg F, Brady TJ, Nagurney J, Hoffmann U.

Comprehensive Cardiothoracic Computed Tomography in the Evaluation of Acute Undifferentiated Chest Discomfort in the Emergency Department (CAPTURE) - A Randomized Controlled Diagnostic Trial

10:45 – 11:00

Smith T, Gurudevan S, Cheng VY, Trento A, DeRobertis M, Siegel R, Berman DS.

Assessment of the Morphologic Features of Degenerative Mitral Valve Disease Using 64-slice Multidetector Computed Tomography

11:00 – 11:15

Sawall S, Bergner F, Knaup M, Kachelrieß M.

Low-Dose Phase-Correlated (LDPC) Cone-Beam Micro-CT of the Mouse Heart

11:15 – 12:00

Dusaj R, Michelis K, Terek M, Sanai R, Mittal R, Lewis J, Zeman R, Choi B.

Estimation of Right Atrial and Ventricular Pressure by CT Coronary Angiography

12:00 – 12:15

Hulten EA, Devine P, Welch T, Feuerstein I, Taylor AJ, Petrillo SP, Luncheon M, Villines TC.

Comparison of Cardiac Computed Tomographic Angiography Image Quality With and Without Breast Shields

Oral Session VI: Coronary CTA

Abstracts 116-121

Saturday, July 17, 10:30 am – 12:00 pm

10:30 - 10:45

Feuchtner G, Dezordo T, Soegner P, Mueller S, Bartel T, Bonaros N, Schachner T, Friedrich G.

Performance of 128-slice Dual Source Computed Tomography Integrating Prospective ECG-Synchronized High-Pitch Mode in Clinical Cardiac CT Practice

10:45 – 11:00

De Graaf FR, Schuijf JD, Van Velzen JE, de Roos A, Reiber JHC, Spanó F, Jukema JW, Schalij M, der Wall E, Bax JJ.

Diagnostic Accuracy of 320-Row Multidetector Computed Tomography Coronary Angiography in the Non-Invasive Evaluation of In-Stent Restenosis

11:00 – 11:15

Pflederer T, Seltmann M, Marwan M, Ropers D, Lell M, Daniel WG, Achenbach S.

Detection of Coronary Artery Stenoses in Patients with Previous Coronary Revascularization by 128-slice Dual Source Computed Tomography

11:15 – 12:00

Fischer CJ, Belur P, Hulten EA, Petrillo SP, Jezior MR, Villines TC.

Cardiac CT Angiography Versus Intravascular Ultrasound for Estimation of Coronary Stenosis and Atherosclerotic Plaque Burden: A Systematic Review and Meta-analysis

12:00 – 12:15

Min JK, Dunning A, Achenbach S, Al-Mallah M, Berman DS, Budoff MJ, Callister TQ, Chang HJ, Cheng VY, Chow B, Delago A, Hadamizky M, Hausleiter J, Karlsberg RP, Kaufmann P, Lin FY, Nasir K, Shaw LJ.

Mortality Risk of Obstructive Coronary Artery Disease in a Propensity Score-Matched Cohort of Non-Diabetic and Diabetic Individuals: A Prospective Multicenter Study

12:15 – 12:30

Min JK, Dunning A, Achenbach S, Al-Mallah M, Berman DS, Budoff MJ, Callister TQ, Chang HJ, Cheng VY, Chow B, Delago A, Hadamizky M, Hausleiter J, Karlsberg RP, Kaufman P, Lin FY, Nasir K, Shaw LJ. Prognostic Value of Coronary CT Angiography for the Prediction of Mortality: A Prospective Multicenter Study of 10,596 Patients

There will be two poster sessions. They will take place on Friday, July 16, and on Saturday, July 17. Both sessions will be from 1:00 pm – 1:45 pm, during which you must be present to present your poster. Moderators are assigned to the session, but this will be informal question and answers with the expert moderators.

Posters for the Saturday session can be put up after 7:00 pm on Friday evening, and must be displayed by 8:00 am Saturday morning. They may remain posted until 4:00 pm, Saturday, July 17, after which they must be taken down. Remaining posters will be discarded by the staff.

Poster Session XI: Coronary CT Angiography II

Abstracts 122-129

Saturday, July 17, 1:00 pm - 1:45 pm

LaBounty TM, Leipsic JA, Srichai M, Mancini GBJ, Dunning A, Lin FY, Min JK.

Influence of Number of Readers on Achievement of High Diagnostic Accuracy in Coronary Computed Tomographic Angiography

Manchanda A, Sartorius J, Shirani J.

Semi-Quantitative Assessment of Thoracic Aortic Calcium: Diagnostic Yield for Prediction of Obstructive Coronary Artery Disease.

Kerl JM, Schoepf UJ, Bauer RW, Vogl T, Herzog C.

64-Slice Multidetector Computed Tomography in the Diagnosis of Coronary Artery Disease: Interobserver Agreement among Radiologists with Varied Levels of Experience on a Per-Patient, and Per-Segment Basis.

Weininger M, Schoepf UJ, Henzler T, Costello P, Thilo C.

Computer-Aided Detection of Coronary Artery Stenosis at Computed Tomography Angiography: Effect on Performance of Readers with Different Experience Levels

Alexanderson E, Martínez M, Jiménez M, Jácome R, Romero E, Ochoa JM, Meave A.

Relationship of Coronary Artery Stenosis with Myocardial Ischemia Assessed by Integrated PET/CT Imaging in Patients with Suspected Ischemic Heart Disease

Shivalkar B, VanderMotte V, Bories W, Wouters K, Salgado R, Van Herck P, Parizel P, Vrints C.
Value of Multidetector Cardiac Computed Tomography as a Gatekeeper for Ruling out Significant Coronary Artery Disease and Implementing Preventive Measures.

Henzler T, Oberoi S, Weininger M, Costello P, Thilo C, Schoepf UJ.
Reproducibility of Non-Calcified Coronary Artery Plaque Burden Assessment across Different Image Analysis Platforms

Mittal T, Jagia P, McCurry M, Carby M.
Feasibility of Cardiac CT Angiography in Patients with End Stage Lung Disease Being Assessed for Pulmonary Transplantation

Poster Session XII: Coronary CT Angiography III

Abstracts 130-137

Saturday, July 17, 1:00 pm - 1:45 pm

Kurata A, Abe M, Fujieda H, Otani T, Kato O, Kido To, Hosokawa K, Kido Te, Higashino H, Mochizuki T.
Coronary Septal Channel Imaging by CT Coronary Angiography in Patients with Chronic Total Occlusion

Kim YJ, Soe JS, Lee HJ, Choi BW, Kim HS, Kim HY, Hong YJ.
Evaluation of Coronary Cameral Fisula Draining into the Left Ventricle with Multi-detector CT

Park NH, Yang GS.
MDCT of Coronary Artery Fistula Between Left Anterior Descending Artery and Left Ventricle. A Case Report

Kozeski G, Kianfar H, Chavarria N, Joseph R, Patel S, Khalid MR, Tenet W, Akinboboye O.
Significance of Coronary Computed Tomography Angiography in Patients with Known or Suspected Coronary Artery Disease- Observational Cohort Analysis

Schoepf UJ, Zwerner P, Bauer RW, Thilo C, Costello P, Herzog C, Vogl T.
Accuracy of Coronary Artery Stenosis Detection with Computed Tomographic versus Invasive Coronary Angiography Compared with Composite Findings From Both Tests as an Enhanced Reference Standard

Maaß C, Kachelrieß M.
Single Source (SS) and Dual Source (DS) Temporal Resolution Improvement

Lee A, Nandurkar D, Schneider-Kolsky M, Seneviratne S, Cameron J, Crossett M, Troupis J.
Influence of Body Mass Index on Image Quality of Coronary 320-MDCT in Patients with High Heart Rate: Initial Experience

Lee J, Bae JH, Lee SY.
Impact of Routine Short-Term Post-Operative CTCA on CABG Surgery

Poster Session XIII: Coronary CT Angiography IV

Abstracts 138-145

Saturday, July 17, 1:00 pm - 1:45 pm

Opolski MP, Kepka C, Pregowski J, Kruk M, Zielinska Z, Michalowska I, Demkow M, Witkowski A, Ruzyllo W.
Dual-source Computed Tomography Angiography for Assessment of Native Coronary Circulation and Bypass Grafts in Patients after Bypass Surgery

Roberts E, Troupis J, Schneider-Kolsky M.
Initial Experience of the Diagnostic Accuracy of 320-Slice Cardiac CT in AF Patients by Clinical Outcome

Khan A, Nasir K, Faisal K, Budoff MJ, Blankstein R, Saghir A, Clouse ME.
Influence of Image Acquisition on Radiation Dose and Image Quality: Complete vs Narrow Phase Window Acquisition Using 320 MDCT

Kepka C, Opolski MP, Pregowski J, Kruk M, Michalowska I, Demkow M, Witkowski A, Ruzyllo W.
Dual-source Computed Tomography Angiography in Patients after Coronary Bypass Surgery: Comparison with Invasive Coronary Angiography

Qureshi W, Swadia T, Khalid F, Al-Mallah M.
Low Prevalence of Paroxysmal Atrial Fibrillation in Patients with Obstructive Coronary Artery Disease Detected on Cardiac Computed Tomography

Sablayrolles JL, Digne F.
64-MDCT Guide About Unprotected Distal Left Main Angioplasty (UDLM) .

Meléndez G, Castillo F, Kimura E, Meave A, Jimenez M, Alexanderson E.
Normal Length and Diameters of Coronary Arteries by Multidetector Computed Tomography

Aboul-Enein F, Hasan A, Elsayy N, Zakaryah N.
The Relation Between Serum Visfatin Levels and Cardiovascular Involvement in Rheumatoid Arthritis

Poster Session XIV: Coronary CT Angiography V

Abstracts 146-153

Saturday, July 17, 1:00 pm - 1:45 pm

Yoneyama K, Vavere AL, Cerci R, Dewey M, Rochitte CE, Chen MY, Tanaka R, Kitagawa K, Tanami Y, Nomura CH, Hoe J, Tan SY, Paul N, Geleijns K, Mather R, Di Carli M, George RT, Lima JAC, Clouse ME, Zadeh AA.

Influence of Image Acquisition Protocol on Radiation Dose and Image Quality with a 320-Detector Volume Computed Tomography Scanner – The CORE-320 Pilot Experience

Vavere AL, Zadeh AA, Rochitte CE, Dewey M, Niinuma H, Paul N, Hoe J, Brinker J, Gottlieb I, Geleijns K, Clouse ME, Lima JAC, Miller JM.

The Relationship Between Gender Specific Radiation Dose and Overall Image Quality in the CORE-64 Trial

Smuclovsky C, Morris JS.
64-slice Prospective Gated Axial Coronary CTA (PGA) In Select Patients

Jang J, Krishnaswami A, Go M, Hung YY.
Predictive Values of Framingham Risk and Coronary Artery Calcium Scores in the Detection of Obstructive Coronary Artery Disease on Cardiac CTA in Patients with Normal Myocardial Perfusion on SPECT

Singh S, Varga-Szemes A, Goetze S, Nath H.
Feasibility of Combined Adenosine Augmented SPECT and MDCT for Evaluation of Myocardial Perfusion and Coronary Artery Morphology

Valdiviezo-Schlomp C, Bengel FM, Zadeh AA, Vavere AL, Lima JAC, George RT.
An In-Vivo Study of Myocardial Bridging and Perfusion Deficits by MDCT and SPECT

Techasith T, Pale R, Bolen M, Ghoshhajra B, Bezerra H, Abbara S, Hoffmann U, Cury RiC, Brady TJ, Blankstein R.

The Effect of Heart Rhythm on Patient Radiation Dose with Dual Source Cardiac Computed Tomography

Williams B, Schwartz RS, Flygenring B, Knickelbine T, Longe T, Lesser JR.

Coronary Stent Evaluation by Computed Tomography Angiography in Symptomatic Patients with Recent Placement

Poster Session XV: Cardiac Morphology

Abstracts 154-161

Saturday, July 17, 1:00 pm - 1:45 pm

Saremi F, Narula N, Mekhail S, Thonar B, Treister J, Malik S, Narula J.

Interatrial Muscle Connection Through the Coronary Sinus: Anatomical Assessment Using MDCT

van Huls van Taxis C, Wijnmaalen A, van der Geest R, Schuijf JD, Bax JJ, Schalij M, Zeppenfeld K.

Integration and Reversed Registration of Electroanatomical Mapping and Multislice CT to Assess the Influence of Epicardial Fat Thickness on Bipolar Electrograms During Epicardial VT Ablation

Troupis J, Crossett M, Schneider-Kolsky M, Nandurkar D.

Presence of Accessory Left Atrial Appendage/Diverticula in a Population with Atrial Fibrillation Compared with Those in Sinus Rhythm: A Retrospective Review

Winkler M, Attili A, Jones E, Abada H, Capasso P.

Use of Non Contrast Computed Tomography of the Inferior Vena Cava as Real Time Imaging Guidance for the Placement of Inferior Vena Cava Filters

Kim YM, Kim SJ, Lee CK, Song JY.

Endocardiovascular Surface Rendering: A New Three-Dimensional Imaging for Intracardiac Anomaly in Congenital Heart Disease

Gupta M, Kadakia J, Budoff MJ, Backlund JY, Cleary P, Bluemke D, Lima JAC, DCCT/EDIC Research Group.

Accuracy of Non-enhanced Cardiac Computed Tomography to Detect Myocardial Infarcts Defined by Cardiac MRI in DCCT/EDIC (Diabetes Control and Complications Trial / Epidemiology of Diabetes Interventions and Complications)

Mukerji SS, Daher IN, Yusuf SW, Banchs, J Durand JB, Gladish G.

Added Usefulness of Electrocardiogram-Gated Computed Tomography in Cancer Patients with Cardiac Masses

Canseco N, Kimura E, Santiago R, Pale R, Bacilio U, Meave A, Melendez G, Alexanderson E.

Prevalence of Coronary Artery Anomalies in Patients with Congenital Heart Disease Detected with Multislice Computed Tomography

Poster Session XVI: Valvular Imaging

Abstracts 162-169

Saturday, July 17, 1:00 pm - 1:45 pm

Morris M, Young P, Suri R, Burkhart H, Williamson E.

Role Of Cardiac CT In The Evaluation Of Mitral Valve Prolapse Prior To Surgical Repair

Hamirani Y, Nasir K, Blumenthal R, Takasu J, Shavelle D, Kronmal R, Budoff MJ.

Relationship of Mitral Annulus Calcification and Coronary Calcification: The Multi-Ethnic Study of Atherosclerosis (MESA)

Nicholson D, Patel M, Nicholson L, Passen E.
Associations and Discrepancies between Multi-Detector Computed Tomography and Echocardiography in Detection of Mitral Annular Calcification and Lack of Correlation with Coronary Artery Calcification

Gurudevan S, Smith T, Cheng VY, Gransar H, Hayes S, Thomson L, Friedman J, Berman DS.
The Relationship of Aortic Valve Calcium Score as Assessed by Multidetector Computed Tomography to Aortic Stenosis

Rixe J, Wilhelm J, Weber M, Moellmann H, Nef H, Liebetrau C, Erkapic D, Dill T, Hamm CW, Rolf A.
Cardiac Computed Tomography is Equivalent to Transesophageal Echocardiography for the Non-Invasive Assessment of the Aortic Annulus Prior to Transcatheter Aortic Valve Implantation

Pflederer T, Mycka H, Rost C, Seltmann M, Marwan M, Ropers D, Daniel WG, Achenbach S.
Evaluation of Diastolic Left Ventricular Function by Contrast-Enhanced Dual-Source Computed Tomography: Determination of Mitral Inflow Patterns in Comparison to Echocardiography

Feuchtnner G, Plass A, Goetti R, Wieser M, Friedrich G, Alkadhi H, Leschka S.
Prospective ECG-triggered "Dual-step" 128-slice Dual Source CT for Evaluation of Coronary Arteries and Cardiac Function Without Heart Rate Control

Budoff MJ, Gupta M, Hacıoglu Y, Gao Y, Flores F, Chen A, Chen L, Mao SS.
Assessment of Changes in Left Ventricular Mass Along with Left Ventricular Systolic Function by CT Angiography

Poster Session XVII: Radiation Exposure II
Abstracts 170-177
Saturday, July 17, 1:00 pm - 1:45 pm

Marwan M, Seltmann M, Pflederer T, Ropers D, Daniel WG, Achenbach S.
Very Low-Dose Coronary Artery Calcium Score Using High-Pitch Spiral Acquisition Mode: Comparison Between Standard 120 kV versus 100 kV Tube Voltage Protocols

LaBounty TM, Leipsic JA, Heilbron B, Mancini GBJ, Gomez M, Wood D, Srichai M, Lin FY, Taylor CM, Ariaratnam N, Weinsaft J, Min JK.
A Prospective Multicenter Randomized Trial Comparing 80 kV and 100 kV Tube Voltage for Coronary Computed Tomographic Angiography in Patients with a Normal Body Mass Index

Anand DV, Westwood MA, Petersen SE, Mathur A, Davies LC.
Prospective ECG-triggered High Pitch Spiral CT Coronary Angiography Provides High Image Quality at a Substantially Reduced Effective Radiation Dose

Seo JS, Choi BW, Yong HS, Semin C, Kim YS.
Usefulness of Low Dose Prospectively Gated 256-slice Chest CT Angiography: Assessment of Radiation Dose and Image Quality

Shaukat A, Meyers L, Qian Z, Vasquez G, Krivisky E, Joshi P, Rinehart S, Voros S.
320-Multidetector Computed Tomography Angiography is Associated with Significant Reduction in Radiation Dose, Compared to 64-Multislice Technology

Sigurdsson G, Dughman S, Heery S, Thompson B.

Radiation Dose Reduction with Low Energy and High Pitch Calcium Scoring Protocols

Khosa F, Khan A, Clouse ME, Budoff MJ, Blankstein R, Nasir K.
Radiation Exposure for Coronary Artery Calcium Score at Prospective 320-Slice MDCT

Pichler P, Pichler-Cetin E, Mendel H, Dock W.
Comparison of Different Oral Premedication Strategies for Heart Rate Reduction before Coronary Computed Tomography Angiography: A Placebo-Controlled Trial

Poster Session XVIII: Pericardial Fat and Atherosclerosis

Abstracts 178-185

Saturday, July 17, 1:00 pm - 1:45 pm

Nakazato R, Dey D, Tamarappoo BK, Cheng VY, Slomka P, Berman DS.
Inter-Scan and Inter-Scanner Reproducibility of Pericardial Fat Measurement from Non-Contrast Cardiac CT

Thonar B, Sefidbakht S, Mekhail S, Sarlaty T, Malik S, Narula J, Saremi F.
Epicardial Adipose Tissue: Correlation of Surface Area and Volume Measurements

Zeb I, Pagali S, Patel A, Ahmadi N, Karnwal S, Dixit S, Budoff MJ.
Comparison of Epicardial and Intrathoracic Adipose Tissue Measurements Using Non-Contrast- and Contrast Enhanced Computed Tomography Scans

Zeb I, Patel A, Pagali S, Hamirani Y, Elamir S, Madaj P, Dixit S, Budoff MJ.
Association of Epicardial, Pericardial and Intrathoracic Adipose Tissue to Coronary Artery Disease

Tamarappoo BK, Dey D, Shmilovich H, Nakazato R, Cheng VY, Gransar H, Slomka P, Berman DS.
Increased Pericardial Fat Volume Measured from Non-Contrast CT Predicts Myocardial Ischemia by Single Photon Emission Computed Tomography

Chung G, Rosenson A, Lodato JA, Lang RM, Patel P.
Is There a Relationship Between Obesity and Coronary Artery Calcification? A Study of Self-Referred Calcium Score Patients

Swadia T, Zweig B, Simpson S, Patel D, Al-Mallah M.
Is There a Correlation Between Abdominal Aortic Calcification and Framingham Risk Score?

Tan SY, Dizon N, Keng F, Swee DS, Cheah FK, Chua T.
Coronary Calcification is Associated with an Increased Carotid Intimal Media Thickness in an Asymptomatic Male Population

Poster Session XIX: Clinical Applications and Resource Utilization

Abstracts 186-193

Saturday, July 17, 1:00 pm - 1:45 pm

Shivalkar B, VanderMotte V, Bories W, Wouters K, Salgado R, Van Herck P, Parizel P, Vrints C.
Appropriate Use Criteria for the Use of Multi-Detector Computed Tomography

Cheezum M, Gibbs B, Hulten EA, Hinds S, Taylor AJ, Feuerstein I, Stack A, Villines TC.
Coronary Computed Tomography Angiography Compared to Myocardial Perfusion Stress Testing: Real-World Comparison on Downstream Resource Utilization

Mitsutake R, Miura S, Shiga Y, Saku K.

What are Determinants of Undergoing Coronary Computed Tomography as Screening for Coronary Artery Disease?

Khalid MR, Khalid F, Kozeski G, Tenet W, Messineo F, Akinboboye O.
Impact of Diabetes on Distribution of Coronary Artery Disease, Procedure Indications and Patient Characteristics by Cardiac CT Angiography in Patients with Appropriate, Inappropriate and Uncertain Indications based upon the Published Appropriateness Criteria

Harigaya H, Motoyama S, Sarai M, Kawai H, Naruse H, Ishii J, Ozaki Y.
Diagnosis and Risk Stratification in Patients with Coronary Heart Disease Using Cardiac Computed Tomography Angiography and Myocardial Perfusion Imaging

Friedrich G, Jodocy D, Graziadei I, Vogel W, Abbrederis S, Feuchtner G.
Multislice Computer Tomographic Coronary Angiography for Preoperative Risk Stratification in Patients Undergoing Liver Transplantation

Medina HM, Jensen JK, Oevrehus K, Maurovich-Horvat P, Engel LC, Truong QA, Januzzi J, Brady TJ, Hoffmann U, Noergaard BL.
Prevalence of Coronary Artery Disease Assessed by Coronary CTA in Patients Admitted with Ischemic Stroke

Min JK, Gilmore A, Berman DS, Shaw LJ, Jones E, O'Day K.
Influence of Post-Test Treatment Strategy on the Cost-Effectiveness of Diagnostic Evaluation Algorithms for Individuals With Stable Chest Pain and No Known Coronary Artery Disease

Poster Session XX: Perfusion and Infarct Imaging

Abstracts 194-201

Saturday, July 17, 1:00 pm - 1:45 pm

Deseive S, Bauer RW, Lehnert T, Vogl T.
Dual Energy CT for the Detection of Acute and Chronic Myocardial Infarction in a Porcine Model: Comparison with MRI Late Enhancement and Histopathology

Feuchtner G, Goetti R, Plass A, Wieser M, Scheffel H, Wyss C, Alkadhi H, Leschka S.
128-Slice Dual Source Computed Tomography Using High-Pitch Mode for Adenosine Stress Myocardial Perfusion and Coronary Angiography

Jibrán N, Cury RoC, Paladino AT, Candia R, Shiozaki A, Senra T, Pinto I, Jordao M, Perini M, Da Fonte M, Souza A.
MDCT Delay Enhancement Evaluation on Chagasic Heart Disease

Ho KT, Panknin C, Chua KC, Klotz E.
Myocardial Perfusion Imaging with 128-Slice Dual Source CT - Protocol for Detection of Infarction

Nakamori S, Kitagawa K, Ichikawa Y, Nakajima H, Kato S, Nagata M, Ohnishi K, Ito M, Sakuma H.
Relationship Between Fatty Replacement and Late Gadolinium Enhancement in Patients with History of Myocardial Infarction

Varga-Szemes A, Ruzsics B, Kirschner R, Suranyi P, Kiss P, Brott B, Singh SP, Simor T, Elgavish A, Elgavish GA.
Determination of Infarct Size In Ex Vivo Swine Hearts Using Gadolinium-Enhanced Multi-Detector Computed Tomography

Mor-Avi V, Chandra S, Kachenoura N, Lodato JA, Veronesi F, Corsi C, Lang RM, Patel AR.
Effects of Regadenoson on Quantitative Three-Dimensional Evaluation of Myocardial Perfusion Using
256-Channel Multidetector Computed Tomography

Carrascosa P, Deviggiano A, Capuñay C, Goldmith A, Betinotti M, Carrascosa J.
Quantitative Myocardial Perfusion Assessment Using Prospective Axial ECG-gated Cardiac CT

Oral Session VII: Perfusion/Infarct Imaging

Abstracts 202-209

Saturday, July 7, 1:45 pm – 3:45 pm

1:45 – 2:00

Henzler T, Schoepf UJ, Kang DK, Schoenberg S, Fink C, Weininger M.
Stress-Only versus Stress/Rest Dual-Energy CT Assessment of Coronary Heart Disease: Similar
Accuracy Compared with SPECT

2:00 – 2:15

Weininger M, Schoepf UJ, Henzler T, Kang DK, Rowe G, Costello P, Bastarrika G.
Adenosine-Stress Dual-Source CT Dynamic Myocardial Volume Perfusion Imaging: Initial Clinical
Experience

2:15 – 2:30

Ho KT, Panknin C, Chua KC, Klotz E.
A Novel Technique of CT Myocardial Perfusion Imaging with 128-Slice Dual Source CT - Detection of
Cardiac Ischemia

2:30 – 2:45

Hausleiter J, Gramer B, Meyer TH, Hadamitzky M, Bischoff B, Nekolla S, Schömig A, Martinoff S.
First Pass Adenosine Stress Myocardial Perfusion CT Imaging in Patients After Myocardial
Revascularization Using the High-Pitch Scan Mode

2:45 – 3:00

Magalhaes T, Cury RoC, Moreira V, Giorgi M, Avila L, Parga J, Kalil-Filho R, Lemos PA, Rochitte CE.
Computed Tomography Stress Myocardial Perfusion With Dipyridamole Improves Diagnostic
Performance of Coronary Angiography by 64 Detector-row Computed Tomography in Patients With
Coronary Stents

3:00 – 3:15

Qian Z, Vasquez G, Rinehart S, Joshi P, Krivitsky E, Kalynych A, Karpaliotis D, Voros S.
Validation of Quantitative Vasodilator Stress-Rest 320-Detector Row Volumetric CT Perfusion Imaging
Against Invasive X-Ray Coronary Angiography and Fractional Flow Reserve Measurements

3:15 – 3:30

Schuleri KH, Choi SH, Centola M, Evers KS, Lardo AC.
Delayed Contrast-Enhanced Multi-Detector Computed Tomography for Evaluation of Therapeutic Effects
of Stem Cell Transplantation in Chronic Heart Failure

3:30 – 3:45

Sala ML, Techasith T, Ghoshhajra B, Maurovich-Horvat P, Medina H, Blankstein R, Brady TJ, Cury RiC.
The Effect of Contrast Timing on Delayed Enhancement in Patients with Myocardial Infarcts in Low Dose
Prospective-Triggered DSCT

Oral Session VIII: Acute Coronary Syndromes and Vulnerable Plaque

Abstracts 210-217

Saturday, July 7, 1:45 pm – 3:45 pm

1:45 – 2:00

Bies R, Tiffany B, Newton C, Medina D, Fine J.

Hospital Costs and Resource Utilization are Reduced by Introducing Calcium Scoring to Triage of ED Patients with Chest Pain

2:00 – 2:15

Branch K, Bresnahan B, Veenstra D, Shuman W, Weintraub W, May J, Elliott D, Mitsumori L, Strote J, Caldwell J.

Economic Outcomes of Cardiac CT Compared to a Standard of Care Clinical Evaluation in Potential Acute Coronary Syndrome

2:15 – 2:30

Nakajima H, Kitagawa K, Onishi K, Kato S, Nakamori S, Nagata M, Miyahara M, Nakamura M, Ito M, Sakuma H.

Myocardial Late Enhancement on 320 Detector-Row CT in Patients Immediately After Percutaneous Coronary Intervention is strongly Associated with Presence of Microvascular Obstruction

2:30 – 2:45

Sara L, Lemos PA, Niinuma H, Dewey M, Shapiro E, Gottlieb I, Vavere AL, Lardo AC, Cox C, Brinker J, Miller JM, Lima JAC, Rochitte CE.

Prevalence of Zero or Low Calcium Scores in Patients with Acute Coronary Syndromes – A CORE 64 Sub-Study

2:45 – 3:00

Yokoyama N, Konno K, Ryu Iino R, Fu Q, Isshiki T.

Prognostic Value of Combination of Coronary Artery Calcium and Carotid Artery Plaque Scores for Patients with Suspected Coronary Artery Disease

3:00 – 3:15

Marwan M, Gauß S, Seltmann M, Pflederer T, Ropers D, Daniel WG, Achenbach S.

Coronary Artery Remodeling by Dual-Source CT: A Head to Head Comparison with Intravascular Ultrasound

3:15 – 3:30

Ferencik M, Ghoshhajra B, Schlett C, Joshi S, Kriegel M, Maurovich-Horvat P, Truong QA, Brady TJ, Hoffmann U.

Semiautomated Software Improves Interobserver Variability of Stenosis and Plaque Volume Measurements in Coronary Computed Tomography Angiography

3:30 – 3:45

Kröner E, Van Velzen JE, Boogers M, Lamb H, Siebelink HM, Kroft L, de Roos A, van der Wall E, Bax JJ, Schuijf JD.

Relationship Between Remodeling on CTA and the Presence of Vulnerable Plaque Characteristics on VH-IVUS.

Oral Session IX: Coronary Atherosclerotic Plaque

Abstracts 218-225

Sunday, July 18, 8:30 am - 10:30 am

8:30 – 8:45

Kuo A, Nasir K, Bholat T, Kiramijyan S, Pirouz S, Budoff MJ.

Gender Differences in Coronary Artery Calcium Progression with Aging.

8:45 – 9:00

Carrascosa P, Deviggiano A, Capuñay C, Carrascosa J.

Prevalence of Coronary Artery Disease in Patients with Negative Calcium Score

9:00 – 9:15

Kallianos K, Maurovich-Horvat P, Engel LC, Hoffmann U, Truong QA.
Effect of Surrounding Pericoronary Adipose Tissue on Local Coronary Atherosclerosis as Assessed by a Novel MDCT Quantitative Volumetric Method

9:15 – 9:30

Chun EJ, Choi SI, Kim JA.
Noncalcified Coronary Plaque in Asymptomatic Subjects with Low Coronary Artery Calcium Score: Prevalence, Severity, and Predictors with Coronary CT Angiography

9:30 – 9:45

Hadamitzky M, Hein F, Meyer TH, Bischoff B, Martinoff S, Schömig A, Hausleiter J.
Prognostic Value of Coronary Computed Tomographic Angiography in Diabetic Patients Without Known Coronary Artery Disease

9:45 – 10:00

Van Velzen JE, Schuijf JD, De Graaf FR, Schalijs M, Kroft L, de Roos A, Jukema JW, van der Wall E, Bax JJ.
Spatial Coronary Distribution and Frequency of High-risk Plaques: Evaluated Non-Invasively by Multidetector Computed Tomography and Invasively by Virtual Histology Intravascular Ultrasound

10:00 – 10:15

Dey D, Nakazato R, Cheng VY, Slomka P, Berman DS.
Automated Quantification of Coronary Remodeling Index and 3D Plaque Composition from Coronary CT Angiography

10:15 – 10:30

Boogers MJ, Schuijf JD, Broerse A, van Velzen JE, de Graaf FR, El-Naggar HMAM, Kitslaar PH, Dijkstra J, de Roos A, Jukema JW, Reiber JHC, Bax JJ.
Automated Quantification of Plaque Characteristics with a Novel Dedicated Registration Tool: A Feasibility Study with Multi-Detector Row Computed Tomography and Intravascular Ultrasound