

CARDIAC RADIOLOGY

104TH Scientific Assembly and Annual Meeting

Radiological Society of North America
McCormick Place, Chicago

November 25–30

Meeting.RSNA.org #RSNA18

RSNA® 2018
TOMORROW'S
RADIOLOGY TODAY 

Accreditation and Designation Statements

The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this live activity for a maximum of **99.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Commission on Accreditation of Medical Physics Education Program (CAMPEP) has approved the direct transfer of *AMA PRA Category 1 Credit™* to MPCEC on a credit-for-credit basis for medical physicists.

Corporate Symposium

Please refer to each course description in the online program to determine if CME credit is offered for the session. Instructions on claiming credit will be provided during the course. CME credit for the Corporate Symposiums will be provided through a third party provider and not through RSNA.

Walk Through The Week

SUNDAY, NOV 25, 2018

Case of the Day

Cardiac Sunday Case of the Day

Session ED002-SU Case of Day, Learning Center

10:45 AM–12:15 PM

Scientific Papers Sessions

Science Session with Keynote: Cardiac (Coronary CTA: Flow and Fractional Flow Reserve)

Session SSA03 S404AB

Science Session with Keynote: Cardiac (Nonischemic Cardiomyopathies)

Session SSA04 S404CD

Nuclear Medicine (Chest and Cardiovascular Nuclear Imaging)

Session SSA16 S505AB

11:00 AM–12:30 PM

Educational Courses

Teaching Congenital Heart Morphology with 3D Print Models

II: Understanding Surgical Procedures in Congenital Heart Diseases with Illustrations and 3D Print Models (Hands-on)

Course RCB11 S401CD

12:30–1:00 PM

Posters and Exhibits: Discussions

Cardiac Sunday Poster Discussions

Session CAS-SUA CA Community, Learning Center

1:00–1:30 PM

Posters and Exhibits: Discussions

Cardiac Sunday Poster Discussions

Session CAS-SUB CA Community, Learning Center

2:00–3:30 PM

Educational Courses

Rapid Fire: 80 Cardiac Cases in 80 Minutes

Course RC103 S406B

CTA for TAVR and Other Aortic Valve Replacements

Course RC112 N230B

The Best of RADIOLOGY in 2018: The Editors of RADIOLOGY Keep You Up to Date

Course RC124 E353A

CTA from Head to Toe

Course RC131 S503AB

4:00–5:45 PM**Plenary Sessions**

Sunday Afternoon Plenary Session

Session PS12 Arie Crown Theater**MONDAY, NOV 26, 2018****Case of the Day**

Cardiac Monday Case of the Day

Session ED002-MO. Case of Day, Learning Center**7:15–8:15 AM****Educational Courses**

You Take the Red Pill-You Stay in Wonderland and I Show You How Deep the Rabbit Hole Goes (Case-based Competition)

Session SPDL20 E451B**8:30–10:00 AM****Educational Courses**

Cardiac CT Mentored Case Review: Part I (In Conjunction with the North American Society for Cardiovascular Imaging) (Interactive Session)

Course MSMC21 S406A

Coronary CTA and Calcium Scoring

Course RC203. E263**8:30 AM–12:00 PM****Educational Courses**

Pediatric Series: Pediatric Chest/Cardiovascular Imaging

Course RC213 E353B**10:30 AM–12:15 PM****Educational Courses**

Cardiac CT Mentored Case Review: Part II (In Conjunction with the North American Society for Cardiovascular Imaging) (Interactive Session)

Course MSMC22 S406A**10:30 AM–12:00 PM****Scientific Papers Sessions**

Science Session with Keynote: Cardiac (Coronary Artery Disease: Practice and Prognosis)

Session SSC01 S504CD

Cardiac (Myocardial Ischemia and Viability (MRI): I)

Session SSC02 S502AB

Emergency Radiology (Thoracic, Cardiac and Vascular)

Session SSC04. S504AB

12:15–12:45 PM**Posters and Exhibits: Discussions**

Cardiac Monday Poster Discussions

Session CAS-MOA CA Community, Learning Center**12:45–1:15 PM****Posters and Exhibits: Discussions**

Cardiac Monday Poster Discussions

Session CAS-MOB CA Community, Learning Center**1:30–3:00 PM****Educational Courses**

Cardiac CT Mentored Case Review: Part III (In Conjunction with the North American Society for Cardiovascular Imaging) (Interactive Session)

Course MSMC23 S406A**3:00–4:00 PM****Scientific Papers Sessions**

Cardiac (CTA: General Topics)

Session SSE03 N229

Cardiac (MRI: General Topics)

Session SSE04 N226**3:30–5:30 PM****Educational Courses**

Cardiac CT Mentored Case Review: Part IV (In Conjunction with the North American Society for Cardiovascular Imaging) (Interactive Session)

Course MSMC24 S406A**TUESDAY, NOV 27, 2018****Case of the Day**

Cardiac Tuesday Case of the Day

Session ED002-TU Case of Day, Learning Center**8:30 AM–12:00 PM****Educational Courses**

Cardiac Series: Emerging Cardiovascular MR and CT Imaging Techniques

Course RC303 E350**10:30 AM–12:00 PM****Scientific Papers Sessions**

Cardiac (Coronary Atherosclerosis)

Session SSG02 S104B

12:15–12:45 PM**Posters and Exhibits: Discussions**

Cardiac Tuesday Poster Discussions

Session CAS-TUA CA Community, Learning Center**12:45–1:15 PM****Posters and Exhibits: Discussions**

Cardiac Tuesday Poster Discussions

Session CAS-TUB CA Community, Learning Center**3:00–4:00 PM****Scientific Papers Sessions**

Cardiac (Myocardial Disease)

Session SSJ03 E353A

Science Session with Keynote: Cardiac (Oncology)

Session SSJ04 E260**4:30–6:00 PM****Educational Courses**

Nonischemic Cardiomyopathies: New Role of Cardiac MRI

Course RC403 E350**WEDNESDAY, NOV 28, 2018****Case of the Day**

Cardiac Wednesday Case of the Day

Session ED002-WE Case of Day, Learning Center**8:30–10:00 AM****Educational Courses**

Essentials of Cardiac Imaging

Course MSES41 S100AB

Read with the Experts (Cardiac Radiology) (Interactive Session)

Course RC503 N228**10:30 AM–12:00 PM****Scientific Papers Sessions**

Cardiac (CT, MRI and PET: General Topics)

Session SSK03 S102CD

Cardiac (Valves Imaging and Intervention)

Session SSK04 S103AB**12:15–12:45 PM****Posters and Exhibits: Discussions**

Cardiac Wednesday Poster Discussions

Session CAS-WEA CA Community, Learning Center

12:45–1:15 PM**Posters and Exhibits: Discussions**

Cardiac Wednesday Poster Discussions

Session CAS-WEB CA Community, Learning Center**3:00–4:00 PM****Scientific Papers Sessions**

Cardiac (Anatomy)

Session SSM03. S102CD

Cardiac (Arrhythmia and Electrophysiology)

Session SSM04. S103AB**THURSDAY, NOV 29, 2018****Case of the Day**

Cardiac Thursday Case of the Day

Session ED002-THCase of Day, Learning Center**7:15–8:15 AM****Educational Courses**

Hot Topic Session: Beyond FDG: Advancing PET Imaging of the Human Disease

Session SPSH50. E353A**8:30–10:00 AM****Educational Courses**

Cardiac Imaging for Transcatheter Intervention Planning

Course RC603. S103CD

Advances in Cardiac Nuclear Imaging: SPECT/CT and PET/CT

Course RC611 S504CD**10:30 AM–12:00 PM****Scientific Papers Sessions**

Cardiac (Great Vessels and Cardiopulmonary Disease)

Session SSQ02. S404AB

Science Session with Keynote: Cardiac (Coronary Artery Disease: CT and MR Techniques)

Session SSQ03. S404CD

Molecular Imaging (Musculoskeletal, Gastrointestinal, Cardio)

Session SSQ12 S504CD**12:15–12:45 PM****Posters and Exhibits: Discussions**

Cardiac Thursday Poster Discussions

Session CAS-THA. . . . CA Community, Learning Center

12:45–1:15 PM**Posters and Exhibits: Discussions**

Cardiac Thursday Poster Discussions

Session CAS-THB CA Community, Learning Center**3:00–4:00 PM****Educational Courses**

Hot Topic Session: Cardiometabolic Imaging

Session SPSH51 E353C**4:30–6:00 PM****Educational Courses**

Infections and Inflammatory Cardiac Disorders

Course RC703 S402ABTranspositions of the Great Arteries in Your Hands
(Hands-on)**Course RCB55 S401CD****FRIDAY, NOV 30, 2018****8:30–10:00 AM****Educational Courses**

MR Imaging in the Thorax

Course RC803 E353C**Posters and Exhibits
Discussions***(CME is available when the author is present for
discussion during the lunch period)***SUNDAY, NOV 25, 2018****12:30–1:00 PM****Scientific Posters**Clinical and CT Angiographic Characteristics of Coronary
Lesions that Later Progressed to Chronic Total Occlusion**CA200-SD-SUA1 Station #1**Development and Validation of Generalized Linear Regression
Models to Predict Vessel Enhancement on Coronary CT
Angiography Scans**CA202-SD-SUA3 Station #3**

Machine Learning Based CT-FFR Integrating With Quantitative Myocardial Mass Subtended By Coronary Stenosis
Outperforms Plaque Features for Predicting Hemodynamical Significance of Lesions

CA204-SD-SUA5 Station #5

Prevalence and Clinical Sequelae of Non-Ischemic Myocardial Enhancement Detected on Delayed Enhancement Cardiac CT

CA203-SD-SUA4 Station #4

Prognostic Value of Normal Coronary Diagnosed Using Coronary CT on Long Time Follow up of 10 Years

CA201-SD-SUA2 Station #2

12:30–1:00 PM

Education Exhibits

A Primer on Echocardiography and Cardiac Angiography for the Cardiothoracic Radiologist

CA162-ED-SUA6 Station #6

CAD-RADS™: Pushing the Limits

CA165-ED-SUA8 Station #8

Cut the Mustard: A Pictorial Review of Post-Surgical Anatomy in the Repair of Conotruncal Abnormalities

CA163-ED-SUA7 Station #7

1:00–1:15 PM

Scientific Posters

Diagnostic Accuracy of Fractional Flow Reserve Derived from Coronary CT Angiography for Detection of Lesion-Specific Ischemia: A Multi-Center Study

CA208-SD-SUB4 Station #4

Native True T1 Mapping for Non-Contrast Assessment of Myocardial Fibrosis in Patients with Cardiomyopathy: Correlation with Late Gadolinium Enhancement MRI

CA205-SD-SUB1 Station #1

Progression of Coronary Artery Calcification in Primary Chronic Glomerulo-Nephritis After Renal Transplantation

CA209-SD-SUB5 Station #5

Relationship between Texture Features of Myocardial Late Gadolinium Enhancement and Ventricular Tachyarrhythmias in Hypertrophic Cardiomyopathy

CA207-SD-SUB3 Station #3

The Effect on Left Ventricular Diastolic Function 12 Month After Renal Denervation: An Evaluation Based on Cardiac Magnetic Resonance Imaging

CA206-SD-SUB2 Station #2

1:00–1:30 PM**Education Exhibits**

Cardiac MR in Pulmonary Hypertension: From Magnet to Bedside

CA161-ED-SUB7 Station #7

Cardiovascular Imaging in Pregnancy - An Update on Current Practice

CA167-ED-SUB8 Station #8

MONDAY, NOV 26, 2018**12:15–12:45 PM****Scientific Posters**

2D/3D CMR-Tissue Tracking in the Assessment of Spontaneous T2DM Rhesus Monkeys with Isolated Diastolic Dysfunction

CA212-SD-MOA3 Station #3

Accuracy of RECHARGE Score Derived From Coronary CT Angiography versus Conventional Angiography for the Prediction of Successful Percutaneous Coronary Intervention in Patient with Chronic Total Occlusion

CA213-SD-MOA4 Station #4

Cardiac Magnetic Resonance Reveals Signs of Subclinical Myocardial Disease in Patients with Myotonic Muscular Dystrophy

CA211-SD-MOA2. Station #2

Compressed SENSE Single-Breath-Hold and Free-Breathing Cine Imaging for Accelerated Clinical Evaluation of Left Ventricle

CA214-SD-MOA5 Station #5

Diagnostic Performance of Intravoxel Incoherent Motion Diffusion-Weighted Imaging in the Assessment of the Dynamic Status of Myocardial Microvascular Circulation

CA210-SD-MOA1. Station #1

The Correlation Between Coronary Artery Calcification and Biochemical Risk Factors in Non-Dialysis Patients with Chronic Kidney Disease Using 16cm Wide-Detector Computed Tomography

CA216-SD-MOA7 Station #7

Unmodified, Autologous Adipose Tissue Derived Regenerative Cells Improve Cardiac Function, Structure and Revascularization in a Porcine Model of Chronic Myocardial Infarction

CA215-SD-MOA6 Station #6

12:15–12:45 PM

Education Exhibits

Fontan Circulation in Adults: What a Radiologist Needs To Know

CA164-ED-MOA8 Station #8

12:45–1:15 PM

Scientific Posters

A Comprehensive Comparison of Two Accelerated 4D-Flow Sequences in Healthy Volunteers Regarding Acquisition Time, Diagnostic Accuracy, Image Quality, and Importance of Eddy Currents Using the Software “Bloodline”

CA217-SD-MOB1 Station #1

Effect of Collateral Circulation on Left Ventricular Myocardial Strain in Patients with Coronary Artery Chronic Total Occlusion by Cardiovascular Magnetic Resonance Feature Tracking

CA221-SD-MOB5 Station #5

Effect of Long Term CPAP Usage on Cardiac Parameters Assessed with Cardiac MRI

CA219-SD-MOB3 Station #3

Pulsatile Lung Deformation Derived from Feature Tracking of Cardiac Cine Magnetic Resonance Imaging: Assessment of Systemic Sclerosis Related Pulmonary Fibrosis

CA218-SD-MOB2 Station #2

The Correlation Between Kidney Pathological Type and Coronary Artery Calcification in End-Stage Dialysis Patients Using 16cm Wide-Detector CT

CA223-SD-MOB7 Station #7

Usefulness of Strain Imaging During Stress-CMR with Adenosine Infusion for a Combined Perfusion-Contractility Evaluation in Detection of Myocardial Ischaemia and Viability

CA222-SD-MOB6 Station #6

12:45–1:15 PM

Education Exhibits

Pap in a Snap: All You Need to Know About Papillary Muscles

CA166-ED-MOB8 Station #8

1:00–1:15 PM

Scientific Posters

Non-Ischemic Myocardial Fibrosis: Diagnostic Performance of Delayed Enhancement Cardiac CT in Comparison with Late Gadolinium Enhancement Cardiac MRI

CA220-SD-MOB4 Station #4

TUESDAY, NOV 27, 2018

12:15–12:45 PM

Scientific Posters

Cardiac Magnetic Resonance T1 Mapping in Adolescent and Young Adult Survivors of Childhood Cancers

CA230-SD-TUA7 Station #7

Cardiac MRI (CMR) Strain Parameters in Determining the Need for Cardiac Re-Interventions in Patients with Repaired Tetralogy of Fallot (TOF)

CA227-SD-TUA4 Station #4

Cardiac T1, T2 and T2* Mapping: Intersegmental, Interregional and Inter-level Reproducibility

CA228-SD-TUA5 Station #5

Evaluation of Gravity Effect on Inferior Vena Cava and Abdominal Aortic Flow Using Multi-Posture MRI

CA225-SD-TUA2 Station #2

MR Black Blood Thrombus Imaging in the Detection of Lower Extremity Vein using Optimized 3D FSE Sequence

CA226-SD-TUA3 Station #3

Preliminary Evaluation of Main Pulmonary Artery Changes in Chronic Mountain Sickness Patients with Phase Contrast MR Imaging

CA224-SD-TUA1 Station #1

Quantitative Evaluation of Monoexponential High B Value DWI in Cardiac Tumors

CA236-SD-TUA8 Station #8

Radiomics of Coronary Artery Calcium in the Framingham Heart Study

CA229-SD-TUA6 Station #6

12:45–1:15 PM

Scientific Posters

Changes of Left Ventricular Myocardial Strain in Acute ST-Elevation Myocardial Infarction Patients before Left Ventricular Remodeling and Its Relation to Microvascular Obstruction: A CMR Feature Tracking Study

CA235-SD-TUB5 Station #5

Impact of Virtual Monoenergetic Image Types on Image Quality of Late Iodine Enhancement with Dual-Layer Spectral CT in Patient with Hypertrophic Cardiomyopathy (HCM)

CA233-SD-TUB3 Station #3

Influence of Readers' Experience on the Classification Performances of the Deep Neural Network (DNN) for Classifying Myocardial Delayed Enhancement on Cardiac MRI

CA231-SD-TUB1 Station #1

Risk Factors of Coronary Artery Calcification in Chinese Children With Chronic Kidney Disease

CA237-SD-TUB6 Station #6

Utility of Dual-Energy CT for Assessment of Myocardial Fibrosis: Calculation of Extracellular Volume Fraction (ECV) Using Measured Hematocrit versus Virtual Hematocrit

CA234-SD-TUB4 Station #4

Validation of Deep Learning Technique for Quantification of Cardiac Left Ventricle

CA232-SD-TUB2. Station #2

12:45–1:15 PM

Education Exhibits

Fluoroscopic Anatomy of the Heart: Comprehensive Understanding with Endocast Imaging and Virtual Dissection Imaging

CA168-ED-TUB7 Station #7

Tutorial for Myocardial Perfusion CT

CA170-ED-TUB8 Station #8

WEDNESDAY, NOV 28, 2018

12:15–12:45 PM

Scientific Posters

Diagnostic Value of Global Cardiac Strain in Patients with Myocarditis

CA242-SD-WEA5 Station #5

Interobserver Agreement of Virtual Transcatheter Heart Valve to Coronary Distance in Aortic Valve-in-Valve Implantation

CA244-SD-WEA7 Station #7

Low Radiation Dose Cardiac Computed Tomography for Left Atrium and Pulmonary Vein Imaging Using a New Protocol Based on Contrast-to-Noise Ratio

CA240-SD-WEA3 Station #3

Patients with Atrial Fibrillation Mediated Left Ventricular Systolic Dysfunction Do Not Have Left Ventricular Fibrosis

CA241-SD-WEA4 Station #4

Pitfall of Preoperative CT Information on Aortic Valvuloplasty – Analysis of Measuring Methods Intended to Comprehend Risk Factors in Image Processing and Improve the Procedure

CA239-SD-WEA2 Station #2

The Devil Is In the detail: Prognostic Factors in CT of Chronic Aortic Dissection

CA238-SD-WEA1 Station #1

The Effects of Snapshot Freeze in Improving Image Quality of Coronary CTA among Patients with Different Heart Rates

CA243-SD-WEA6 Station #6

12:15–12:45 PM**Education Exhibits**

Left Ventricular Outflow Tract: A Complete Review of Imaging Related Anatomy, Pathology, and Surgical Techniques

CA172-ED-WEA8 Station #8

12:45–1:15 PM**Scientific Posters**

Analysis of the Anatomical Features of Pulmonary Veins on Pre-Procedural Cardiac CT Images Resulting in Incomplete Cryoballoon Ablation for Atrial Fibrillation

CA248-SD-WEB4 Station #4

Automated Cardiac MR Plane Classification Using VGG-19 Convolutional Neural Network: A Deep Learning Study

CA249-SD-WEB5 Station #5

CT-Derived 3D Strain for Cardiac Resynchronization Therapy in Patients with Congenital Corrected Transposition of the Great Arteries

CA245-SD-WEB1 Station #1

Delayed Enhancement of Papillary Muscles on Cardiac Magnetic Resonance Imaging in Patients with Mitral Regurgitation

CA251-SD-WEB7 Station #7

Employing Artificial Intelligence to Predict Hematocrit Values from Non-Contrast CT Imaging Data—Towards Fully Automated CT-derived Myocardial Extracellular Volume Fraction Quantification

CA250-SD-WEB6 Station #6

The Effect of Motion Correction Algorithm at Low Energy Level of Virtual Monochromatic Images in Coronary CT Angiography with Fast kVp Switching Dual-Energy CT

CA246-SD-WEB2 Station #2

Venous Air Embolism in CT Coronary Angiography

CA247-SD-WEB3 Station #3

12:45 –1:15 PM**Education Exhibits**

A Compendium of Multimodality Imaging in Infective Endocarditis

CA174-ED-WEB8 Station #8

THURSDAY, NOV 29, 2018**12:15–12:45 PM****Scientific Posters**

Automatic Segmentation of Lung Volumes in Population-based Whole-Body MR Imaging: Association with Subclinical Cardiac Impairment

CA256-SD-THA5 Station #5

Coronary Artery to Pulmonary Artery Fistula in Adults:
Comparison of 256-Slice MDCT Coronary Angiography and
Transthoracic Echocardiography

CA252-SD-THA1 Station #1

Does the Tube Voltage Affect the Characterization of Coronary
Plaques on 100- and 120-kVp CT Scans

CA253-SD-THA2 Station #2

Free-Breathing Coronary CT Angiography Using 16-Cm
Wide-Detector for Challenging Patients: Comparison with
Invasive Coronary Angiography

CA255-SD-THA4 Station #4

Long-Term Prognostic Value Coronary Artery Calcium in
Heart Transplant Patients

CA254-SD-THA3 Station #3

12:15–12:45 PM

Education Exhibits

Cardiac MRI in Patients with Cardiac Arrhythmias - Practical
Tips and Tricks

CA169-ED-THA7 Station #7

Getting to the Heart of Eponyms

CA173-ED-THA8 Station #8

Uncommon Connections in Cardiac CT

CA175-ED-THA6 Station #6

12:45–1:15 PM

Scientific Posters

CT-Detected Complications after Cardiac Transplantation:
Differences between Patients with and Without Bridge to
Transplantation

CA261-SD-THB5 Station #5

Evaluation of Coronary Plaque Using Effective Atomic Number
in Coronary CT Angiography with Fast kVp Switching
Dual-Energy CT: Influence of Intracoronary CT-Attenuation

CA259-SD-THB3 Station #3

Machine Learning to Evaluate Atherosclerotic Plaque
Composition by Coronary CT: Validation with IB-IVUS

CA257-SD-THB1 Station #1

Prognostic Value of Coronary CT Angiography (CCTA) in
Heart Transplant Patients

CA258-SD-THB2 Station #2

The Feasibility of an Ultra-Low Dose Contrast Agent
Administration Protocol in CCTA for Patients with Renal
Insufficiency

CA260-SD-THB4 Station #4

12:45–1:15 PM**Education Exhibits**

Mapping the MAPCAs with Dual Source CT: What Do the Cardiothoracic Surgeons Want to Know?

CA171-ED-THB7 Station #7

Pathologic Entities That May Affect the Lungs and the Myocardium: Keys for Diagnosis and Prognosis with Chest CT and Cardiac MR

CA176-ED-THB6 Station #6

Education Exhibits

| SPACE NO. | EXHIBIT TITLE |
|------------------|--|
| CA001-EC-X | 3D High-Resolution Microstructure Imaging of the Heart |
| CA100-ED-X | Fat in the Heart: Defining the Spectrum of Conditions by Cardiovascular MRI |
| CA101-ED-X | Myocardial Infarction with Normal Coronary Arteries (MINCA): Potential Etiologies and Imaging Findings |
| CA102-ED-X | Cardiac MR Evaluation of Benign Masses and Mass-Mimicking Lesions |
| CA103-ED-X | ¹ H-Magnetic Resonance Spectroscopy for Metabolic Imaging of Myocardial Triglyceride Content: How 'To Do' It |
| CA104-ED-X | Demystifying Coronary Bypass Grafts Using MDCT |
| CA105-ED-X | Go with the Flow: Multimodality Imaging of Cardiovascular Shunts |
| CA106-ED-X | Coronary CT Angiography with Wide Coverage Detector: How to Optimize Contrast Injection and Scan Protocol Based on Patient Size to Reduce Contrast and Radiation Doses |
| CA107-ED-X | Cardiac Conduction Devices in Imaging: Simple but Easily Overlooked |
| CA108-ED-X | Don't Strain Yourself: Strain and Multimodality Imaging in Cardiac Amyloidosis |
| CA109-ED-X | What Radiologists Need to Know About the Utility of Detector-Based Spectral CT Imaging for Cardiovascular Disease |
| CA110-ED-X | Myocardial Bridging: How to Measure and Report |
| CA111-ED-X | The Ability of the Acute Infarct Extracellular Volume Mapping to Quantify Myocardial Area at Risk of a Non-ST Elevation Myocardial Infarction by 320-Slice CT |
| CA112-ED-X | Cinematic Rendering in Cardiovascular Imaging: Physics, Principles, and Applications |
| CA113-ED-X | Magnetic Resonance Imaging of Myocarditis |

- CA114-ED-X** Survivors: Cardiac MRI Guiding Ablation in Chagas Disease Patients with Sustained Ventricular Tachycardia
- CA115-ED-X** Secret War: Is the Iron Heart Invincible? Diagnosis of Cardiomyopathy Due to Iron Overload in Cardiac Magnetic Resonance
- CA116-ED-X** Pericardial Diseases: Multimodality Imaging Evaluation with Pathology Correlation
- CA117-ED-X** MRI of Restrictive Cardiomyopathy
- CA118-ED-X** It Is Not Just a DILV (Double Inlet Left Ventricle): The Additional Value of CT in Preoperative Assessment
- CA119-ED-X** Current Trends in Diagnostic Imaging of Cardiac Amyloidosis
- CA120-ED-X** Athlete's Heart: The Great Pretender
- CA121-ED-X** Coronary Artery Termination Variations and Anomalies
- CA122-ED-X** Identifying Vulnerable Coronary Plaques - What Should I Know?
- CA123-ED-X** The Importance of Multi-Modality Imaging in Cardiac Amyloidosis
- CA124-ED-X** Left Ventricular Assist Devices, the Expected and Unexpected - A Multimodality Imaging Review of Left Ventricular Assist Devices in Preoperative, Perioperative, and Destination Therapy Patients
- CA125-ED-X** Demystifying Cardiac Assist Devices: Imaging Review of Pediatric Ventricular Assist Devices with Clinical Correlation
- CA126-ED-X** Clinical Applications of Spectral Cardiac CT in Ischemic Heart Disease and Various Cardiomyopathies: What the Radiologist Needs to Know
- CA127-ED-X** Evaluation of the Accuracy of Iodine-Enhanced Subtraction Myocardial Computed Tomography in the Diagnosis of Cardiac Sarcoidosis: Comparison with Cardiac Magnetic Resonance Imaging
- CA128-ED-X** Development of a New Method to Perform Calcium Scoring with High Accuracy in Pulsating Heart

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|-------------------|--|
| CA129-ED-X | A Radial Sampling Strategy to Overcome Artifacts in Myocardial Delayed Enhancement: Benefits and Pitfalls |
| CA130-ED-X | A New Star in Cardiac MRI; T2* Mapping and Intra-Myocardial Hemorrhage in the Setting of Acute Myocardial Infarction |
| CA131-ED-X | Key Stone Status of Radiology in Surgical Decision Making in TOF - Surgeons Perspective |
| CA132-ED-X | MSCT Imaging of Unusual Coronary to Pulmonary Circulation Fistulae |
| CA133-ED-X | Spectrum of Conotruncal Anomalies - What Surgeon Wants to Know in Pre-Operative Imaging? |
| CA134-ED-X | The Pearls and Pitfalls in the Imaging of ECMO Patients |
| CA135-ED-X | Pericardial Diseases: Pictorial Review of Congenital and Acquired Pathologies and Their Hemodynamic and Clinical Significance |
| CA136-ED-X | Reading Between the Guidelines: Techniques and Pitfalls in the Assessment of Resting Perfusion Defects on Dual Energy CT Coronary Angiography |
| CA137-ED-X | Normal and Abnormal Imaging Findings of Cardiovascular Devices: When ECG-Gated CT Might Help |
| CA138-ED-X | Assessment of Aortic Valve Disease by Cardiac MRI: Beyond Echocardiography |
| CA139-ED-X | Assessment of Coronary Artery Fistulas by Computed Tomographic Angiography (CTA) |
| CA140-ED-X | Comprehensive Assessment of Endomyocardial Fibrosis (EMF) by Cardiac Magnetic Resonance (CMR): Morphology, Function, and Tissue Characterization |
| CA141-ED-X | Comprehensive Assessment of Hypertrophic Cardiomyopathy (HCM) by Cardiac Magnetic Resonance (CMR) |
| CA142-ED-X | Comprehensive Three-Dimensional Reconstruction of Adult Congenital Heart Disease |
| CA143-ED-X | Congenital Thoracic Aortic Anomalies |
| CA144-ED-X | Update on Cardiovascular Devices |

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| CA145-ED-X | The Circles of Life: Conotruncal Arterial Anastomotic Circles and Their Relevance |
| CA146-ED-X | Cardiac MR for the Evaluation of Left Ventricular Apical Abnormalities - Pathological Conditions and Keys for Differential Diagnosis |
| CA147-ED-X | Cardiac Catheterization 101 for radiologists |
| CA148-ED-X | Computed Tomographic Evaluation of Myocardial Ischemia - An Update on Emerging Strategies |
| CA149-ED-X | Magnetic Resonance Imaging of the Pericardium - A Comprehensive Review with Multi-Modality Correlation |
| CA150-ED-X | CT for Injuries of Heart and Aorta |
| CA151-ED-X | How to Quantify the Intramyocardial Hemorrhage After Reperfusion Injury: Comparison to Various Semi-Automated Methods |
| CA152-ED-X | Superiority of Systolic T1 Mapping with Saturation Recovery for Errors of Image Registration and Identification of Myocardium |
| CA153-ED-X | The (He)art of Diagnosing Complex Cardiac Cases: Case Based Quiz for Residents |
| CA154-ED-X | Optimization of One-beat 256 Row Detector Coronary CT Angiography Using Low Contrast Media Protocols in Patients with Free Breathing under Automatic Tube Voltage Selection |
| CA155-ED-X | Cardiac Image Analysis with Deep Learning Methods |
| CA156-ED-X | Coronary Artery Variants and Anomalies: A Pictorial Essay |
| CA157-ED-X | Cardiac MR Mapping: Diagnostic Strategy in Clinical Practice |
| CA158-ED-X | Anatomy Halved with Complexity Doubled: Imaging Congenital Heart Disease with Univentricular Physiology |
| CA159-ED-X | Anatomic Considerations and Imaging of Mitral Valve Disease: Pertinent Imaging for Pre-Surgical Planning |



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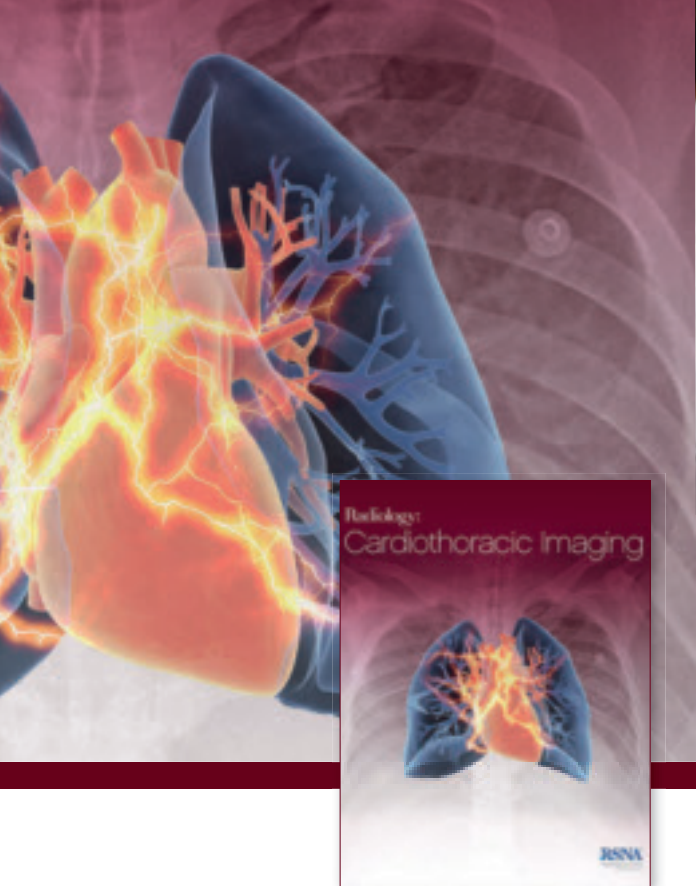
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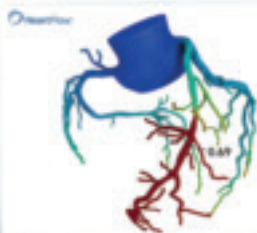
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1. Driessen, et al. Presented at EuroPCR 2018. Nørgaard, et al. J Am Coll Cardiol. 2014; 63:1145-55.

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