

COMPUTED TOMOGRAPHY

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

10:45 AM–12:15 PM

Scientific Papers Sessions

Breast Imaging (Contrast Enhanced Spectral Mammography)

Session SSA02 **E450B**

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

Session SSA03 **S404AB**

Chest (Emphysema/COPD)

Session SSA05 **E451A**

Science Session with Keynote: Emergency Radiology (Imaging Algorithms, Modalities and Techniques)

Session SSA06 **S405AB**

Science Session with Keynote: Gastrointestinal (Radiomics)

Session SSA07 **N226**

Musculoskeletal (Lower Extremity)

Session SSA15 **E353B**

Nuclear Medicine (Chest and Cardiovascular Nuclear Imaging)

Session SSA16 **S505AB**

Physics (Dual-Energy/Spectral CT)

Session SSA21 **S103AB**

2:00–3:30 PM

Educational Courses

Interstitial Lung Disease: Update 2018

Course RC101 **S406A**

Opportunistic CT Screening for Osteoporosis, Sarcopenia, and Adiposity

Course RC104 **E450B**

CTA for TAVR and Other Aortic Valve Replacements

Course RC112 **N230B**

Advances in CT: Technologies, Applications, Operations-Quantitative CT (QIBA)

Course RC121 **E351**

CTA from Head to Toe

Course RC131 **S503AB**

MONDAY, NOV 26, 2018

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

The Many Facets of Organizing Pneumonia: A Rad-Path Guide to Understanding and Diagnosis

Course RC201 E351

Coronary CTA and Calcium Scoring

Course RC203 E263

Advances in CT: Technologies, Applications, Operations-Special Purpose CT

Course RC221 S102CD

CT Dose Monitoring: Nuts, Bolts, and Tools... and What We Need to Build

Course RC224 N229

8:30 AM–12:00 PM

Educational Courses

Nuclear Medicine Series: New PET Tracers for Prostate Cancer (Interactive Session)

Course RC211 S505AB

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

Chest (Lung Cancer Screening)

Session SSC03 E451A

Emergency Radiology (Thoracic, Cardiac and Vascular)

Session SSC04 S504AB

Gastrointestinal (Liver Diffuse Disease, Fibrosis)

Session SSC06 N229

Science Session with Keynote: Genitourinary (New Techniques for Renal Imaging)

Session SSC07 S503AB

Science Session with Keynote: Musculoskeletal (Body Composition)

Session SSC10 S102CD

Physics (CT: New Systems)

Session SSC13 N230B

12:30–1:30 PM

Lunch and Learns

Lunch and Learn: X-Ray in Motion: Changing the Role of Radiology in Pulmonary Function Assessment and Diagnosis: Presented by Konica Minolta Healthcare (invite-only)

Session LL13 S403A

1:30–2:45 PM

Educational Courses

Basic Physics Lecture for the RT: Dual Energy CT Applications in Radiation Therapy

Session SPPH21 S402AB

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

Chest (Airway Disease)

Session SSE05 N230B

Science Session with Keynote: Emergency Radiology (Forensic and Musculoskeletal Imaging)

Session SSE06 E353A

Gastrointestinal (Advanced Imaging Texture Analysis)

Session SSE09 S404CD

Gastrointestinal (General Abdominal Oncology)

Session SSE10 S403A

Genitourinary (Imaging of Renal Stones)

Session SSE11 S102CD

Science Session with Keynote: Genitourinary (Adrenal Imaging)

Session SSE12 S103AB

Musculoskeletal (Metal Artifact Reduction Techniques)

Session SSE16 N227B

Neuroradiology/Head and Neck (Thyroid and Parathyroid Imaging)

Session SSE18E351

Physics (CT: QA and Protocols)

Session SSE22 S504AB

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

8:30–10:00 AM

Educational Courses

Case-based Review of Nuclear Medicine: PET/CT Workshop-Head and Neck PET/CT (In Conjunction with SNMMI) (Interactive Session)

Course MSCC31 E450B

Essentials of Chest Imaging

Course MSES31 S100AB

Pulmonary Vascular Imaging

Course RC301 S104B

Current Imaging of the Appendix

Course RC308 E353C

Advances and Updates in SPECT/CT

Course RC311 S504CD

Emerging Technology: Dual Energy and Spectral CT Update 2018

Course RC317 S505AB

Challenging Cases in Body Oncologic Imaging (Interactive Session)

Course RC318 E353A

Advances in CT: Technologies, Applications, Operations-Spectral CT

Course RC321E351

8:30 AM–12:00 PM

Educational Courses

Cardiac Series: Emerging Cardiovascular MR and CT Imaging Techniques

Course RC303 E350

Gastrointestinal Series: Advances in Abdominal CT

Course RC309E451A

Vascular Series: CT Angiography: New Techniques and Their Application

Course RC312 **S502AB**

10:30 AM–12:00 PM

Educational Courses

Case-based Review of Nuclear Medicine: PET/CT Workshop-
Chest and Musculoskeletal PET/CT (In Conjunction with
SNMMI) (Interactive Session)

Course MSCC32 **E450B**

10:30 AM–12:00 PM

Plenary Sessions

Tuesday Morning Plenary Session

Session PS31 **E451B**

10:30 AM–12:00 PM

Scientific Papers Sessions

Cardiac (Coronary Atherosclerosis)

Session SSG02 **S104B**

Chest (Lung Nodule)

Session SSG03 **S504AB**

Emergency Radiology (Brain, Head, Neck and Spine)

Session SSG04 **S403A**

Musculoskeletal (Machine Learning and Artificial Intelligence)

Session SSG08 **S102CD**

Nuclear Medicine (Gastrointestinal Oncology Nuclear Imaging)

Session SSG09 **S505AB**

Physics (CT: Radiation Dose)

Session SSG12 **S404CD**

Physics (CT: New Techniques)

Session SSG14 **S405AB**

1:30–3:00 PM

Educational Courses

Case-based Review of Nuclear Medicine: PET/CT Workshop-
Abdomen/Pelvis & Pediatrics PET/CT (In Conjunction with
SNMMI) (Interactive Session)

Course MSCC33 **E450B**

1:30–2:30 PM

Scientific Papers Sessions

BOOST: Lung, Mediastinum and Pleura

Session MSRO37 **S103CD**

3:00–4:00 PM

Scientific Papers Sessions

Science Session with Keynote: Chest (Thoracic MRI)

Session SSJ05 **S404AB**

Science Session with Keynote: Emergency Radiology
(Practice Management)

Session SSJ06 **S402AB**

Gastrointestinal (Quantitative Imaging Analysis)

Session SSJ09 **S104B**

Molecular Imaging (Novel Multi-Modal Applications)

Session SSJ14 **S505AB**

Musculoskeletal (Advances in Computed Tomography)

Session SSJ15 **E350**

Science Session with Keynote: Nuclear Medicine (Chest/
Breast Oncology Nuclear Imaging)

Session SSJ17 **S504CD**

Physics (Image Reconstruction)

Session SSJ22 **N227B**

Physics (CT: Cone-Beam CT in Imaging and Radiation
Therapy)

Session SSJ23 **N226**

3:30–5:00 PM

Educational Courses

Case-based Review of Nuclear Medicine: PET/CT Workshop-
Advances in PET (In Conjunction with SNMMI) (Interactive
Session)

Course MSCC34 **E450B**

4:30–6:00 PM

Educational Courses

Occupational Lung Disease

Course RC401 **E450A**

Imaging of the Colorectum

Course RC409 **E352**

PET/CT and SPECT/CT in Movement Disorders, Epilepsy, and
Dementia

Course RC411 **S504CD**

Peripheral Artery Disease: CTA and MRA

Course RC412 **N230B**

Tips, Tricks and Pitfalls in Body Oncological Imaging: Experts
Tell All

Course RC418 **N229**

Advances in CT: Technologies, Applications, Operations - CT
Performance

Course RC421 **N226**

Dual Energy CT for Radiotherapy Applications

Course RC422 **S104A**

WEDNESDAY, NOV 28, 2018

8:30–10:00 AM

Educational Courses

Essentials of Cardiac Imaging

Course MSES41 **S100AB**

Lung Cancer Screening Diagnosis Live (Interactive Session)

Course RC501 **E353C**

Essentials of Temporal Bone Imaging

Course RC506 **E451A**

Head and Neck PET/CT: Clinical Approach

Course RC511 **S504CD**

Advances in CT: Technologies, Applications, Operations-
Functional CT

Course RC521 **E351**

Optimization and Technology in Interventional Radiology

Course RC523 **S403B**

8:30 AM–12:00 PM

Educational Courses

Neuroradiology Series: Stroke

Course RC505 **E450A**

Emergency Radiology Series: Contemporary Topics in Imaging
of Trauma

Course RC508 **S406B**

9:20–10:20 AM

Educational Courses

ASRT@RSNA 2018: Tips and Tricks - Radiation Dose Aspects
in Oncologic CT Imaging

Course MSRT42 **N230B**

10:30 AM–12:00 PM

Educational Courses

BOOST: Lymphoma-Oncology Anatomy and Case-based
Multidisciplinary Review (Interactive Session)

Course MSRO42 **S103CD**

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**

Science Session with Keynote: Gastrointestinal (Colorectal
Imaging)

Session SSK06 **S502AB**

Gastrointestinal (Dual-Energy CT Techniques)

Session SSK08 S404CD

Genitourinary (Renal Masses)

Session SSK09 N226

Nuclear Medicine (Lymphoma, Sarcoma and Melanoma)

Session SSK14 S505AB

Neuroradiology (Stroke Imaging and Intervention)

Session SSK15 E350

Physics (CT: Image Quality)

Session SSK18 E353C

1:30–3:00 PM

Educational Courses

Case-based Review of Thoracic Radiology (Interactive Session)

Course MSCT41 S406A

2:20–3:20 PM

Educational Courses

ASRT@RSNA 2018: CT Colonography - The New Kid on the Block

Course MSRT45 N230B

3:00–4:15 PM

Educational Courses

BOOST: Advanced Techniques in Image-guided Therapy (Interactive Session)

Course MSR044 S103CD

3:00–4:00 PM

Scientific Papers Sessions

Cardiac (Arrhythmia and Electrophysiology)

Session SSM04 S103AB

Chest (Vascular/Interventional)

Session SSM05 S404CD

Chest (Diffuse Lung Disease)

Session SSM06 S402AB

Emergency Radiology (Abdomen and Pelvis Trauma)

Session SSM07 S404AB

Gastrointestinal (Gallbladder and Bile Ducts)

Session SSM09 S503AB

Nuclear Medicine (Thyroid/Parathyroid Imaging and Therapy)

Session SSM16 S504CD

Neuroradiology/Head and Neck (Dual-Energy CT in Head and Neck Imaging)

Session SSM17 N228

Physics (Photon-Counting CT)

Session SSM21 S104B

Vascular Interventional (Portal Interventions)

Session SSM24 E264

4:30–5:30 PM

Educational Courses

BOOST: eContouring (Spinal SBRT)

Course MSR049 S104B

4:30–6:00 PM

Educational Courses

Controversy Session: CT or MRI after Equivocal Appendix

Visualization on Pediatric Ultrasound?

Session SPSC43 N226

Controversy Session: CTA or MRA?

Session SPSC45 E353A

THURSDAY, NOV 29, 2018

7:15–8:15 AM

Educational Courses

Neuro Nightmares: Headscratchers from Overnight (Case-based Competition)

Session SPDL50 E451B

8:30–10:00 AM

Educational Courses

Practical HRCT of the Lung (Interactive Session)

Course RC601 N228

Cardiac Imaging for Transcatheter Intervention Planning

Course RC603 S103CD

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

Course RC611 S504CD

Advances in CT: Technologies, Applications, Operations - CT Systems

Course RC621 S403A

Advances in Cone Beam CT Acquisition and Reconstruction in Radiotherapy

Course RC622 S504AB

10:30 AM–12:00 PM

Educational Courses

Essentials of Trauma Imaging

Course MSES52 S406B

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**

Chest (Radiomics)

Session SSQ04 **E353A**

Chest (Functional Lung Imaging/Dual-Energy CT/Radiation Dose Reduction)

Session SSQ05 **E353B**

Gastrointestinal (General Abdominal Imaging)

Session SSQ06 **E350**

Gastrointestinal (Gastric Cancer)

Session SSQ07 **E351**

Gastrointestinal (Advanced CT Techniques)

Session SSQ08 **E352**

Nuclear Medicine (Technical Innovations and Emerging Opportunities)

Session SSQ14 **S505AB**

Physics (CT: Imaging Performance)

Session SSQ17 **N229**

Physics (CT: Organ Dose)

Session SSQ18 **N228**

3:00–4:00 PM

Educational Courses

Hot Topic Session: Biomarker and Personalized Medicine in Lung Cancer Imaging

Session SPSH52 **E350**

Hot Topic Session: Immunotherapy for Cancer-A Demanding New Imaging Frontier

Session SPSH54 **S503AB**

4:30–6:00 PM

Educational Courses

Imaging of Thoracic Neoplasms: Update 2018 (Interactive Session)

Course RC701 **E450A**

Improving PET Interpretation (Interactive Session)

Course RC711 **S504CD**

Emerging Technology: Imaging of Dementias

Course RC717 **S505AB**

Advances in CT: Technologies, Applications, Operations - CT Practice

Course RC721 S105AB

FRIDAY, NOV 30, 2018

8:30–10:00 AM

Educational Courses

CT Radiation Dose Reduction: Techniques and Clinical Implementation

Course RC823 E253CD

9:30 AM–12:30 PM

Educational Courses

International Symposium in Musculoskeletal Radiology (In Conjunction with Asian Musculoskeletal Society (AMS), European Society of Musculoskeletal Radiology (ESSR), German Society of Musculoskeletal Radiology (DGMSR), International Skeletal Society (ISS), Korean Society of Musculoskeletal Radiology (KSMR) and Society of Skeletal Radiology (SSR))

Session SPIS61 E450A

10:30 AM–12:00 PM

Scientific Papers Sessions

Chest (Thoracic Malignancy)

Session SST02 E350

Nuclear Medicine (Abdomen and Pelvis Nuclear Imaging)

Session SST06 E261

Physics (Nuclear Medicine, Quantitative Image Analysis in Imaging and Radiation Therapy)

Session SST09 E264

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

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

CA203-SD-SUA4 Station #4

1:00–1:30 PM**Scientific Posters**

Evaluation of Iterative Reconstruction Using 3D-Consolidated Signal Noise to Ratio

PH206-SD-SUB2 Station #2

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

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

CA207-SD-SUB3 Station #3

Vendor-Neutral, DICOM Viewer-Based, Graphical Image Exploration of Clinical Spectral CT Studies

PH209-SD-SUB5 Station #5

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

A CT Protocol Management System for Reviewing and Version Tracking of CT Protocols from Multiple CT Vendors

PH215-SD-MOA6 Station #6

Accuracy of Volume Measurements of Coronary Calcification at CT Using Model-Based Iterative Reconstruction: A Phantom Study

PH212-SD-MOA3 Station #3

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

CA211-SD-MOA2. Station #2

Medical Student Device Design for Interventional Radiology: Design of a Needle Stabilization Device for CT-Guided Procedures

PH210-SD-MOA1. Station #1

Potential of a New High Capacity X-Ray Tube to Enable Low-kV Contrast-Enhanced CT Imaging of Large Patients with Improved Image Quality: A Phantom Study

PH214-SD-MOA5 Station #5

12:45–1:15 PM**Scientific Posters**

Coronary Stent Imaging with Photon Counting CT: Can Dedicated Sharp Convolution Kernels Improve Image Quality?

PH220-SD-MOB3 Station #3

Development a Software Which Assists Radiologists to Determine Optimal Contrast Material Administration Protocol at CT: Validation Study Using a Computer Simulation

PH221-SD-MOB4 Station #4

Nationwide, Longitudinal Trends in CT Colonography Usage: Cross Sectional Survey Results from the 2010 and 2015

National Health Interview Survey

GI350-SD-MOB4. Station #4

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**

A Study on the Correlation between Body Mass Index (BMI) and "Four Low" Coronary Artery CT Angiography

PH228-SD-TUA6. Station #6

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

CA230-SD-TUA7. Station #7

12:45–1:15 PM**Scientific Posters**

Comparison of Two Free-breathing Coronary Computed Tomography Angiography (CCTA) Protocols for Patients with Severe Cardiac Insufficiency

PH236-SD-TUB4 Station #4

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

WEDNESDAY, NOV 28, 2018

12:15–12:45 PM

Scientific Posters

Evaluation of Iodine Concentration Measurement by Dual Energy CT Scan on Tumor Response for Patients with Advanced Gastric Cancer

GI370-SD-WEA2 Station #2

Eye-lens Shielding in Cranial CT: Evaluation of Image Quality and Artifact Frequency

PH243-SD-WEA4 Station #4

Iodine Quantification in Photon-counting CT: Accuracy Based on Dose

PH244-SD-WEA5 Station #5

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

CA241-SD-WEA4 Station #4

System Performance Comparison of Ultra-High-Resolution Scans Using Two Clinically Available Multi-Detector CT Systems

PH241-SD-WEA2 Station #2

Whole Liver Quantification of Hepatic Steatosis Using Dual-Energy Computed Tomography

GI374-SD-WEA6 Station #6

12:15–12:45 PM

Education Exhibits

Computer Assistance in Comparison of Kidney Function Variation Between Pre- and Post-nephrectomy

UR007-EB-WEA Hardcopy Backboard

12:45–1:15 PM

Scientific Posters

A Multi-Echo Stack-of-Stars UTE-Based Thoracic Dixon Imaging

PH250-SD-WEB5 Station #5

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

Image Quality and Diagnostic Value of Virtual Non-Enhanced Imaging Compared to True Non-Contrast Imaging in the Dual-Source Dual-Energy CT

GI377-SD-WEB2 Station #2

Maximizing Iodine Detectability Using Different Types of Multiple Energy Images from a Single Acquisition on a Photon-Counting-Detector CT System

PH249-SD-WEB4 Station #4

Task-based Assessment of Photon-counting CT Binned Images with Varying Patient Size and Imaging Mode

PH248-SD-WEB3 Station #3

THURSDAY, NOV 29, 2018

12:15–12:45 PM

Scientific Posters

CT Evaluation of Response in Advanced Gastroenteropancreatic Neuroendocrine Tumors Treated with Long-Acting-Repeatable Octreotide: What is the Optimal Size Variation Threshold?

GI385-SD-THA5 Station #5

Diagnostic Value of Multiparameter Dual-Energy CT in Regional Lymphatic Metastasis of Gastric Cancer

GI386-SD-THA6 Station #6

Individualized Body Weight Adapted Contrast Media Protocols in CT Imaging of the Liver at 90 kV

GI388-SD-THA8 Station #8

12:45–1:15 PM

Scientific Posters

Clinical Trial to Evaluate Customized Positive Oral Contrast Media for low-kVp/keV Imaging

GI394-SD-THB6 Station #6

Evaluation of the Effects of Different Iodine Concentration Contrast Media on Virtual Unenhanced CT Images

GI391-SD-THB3. Station #3

Exploration of Optimal ASIR-V Weight in Low-Dose Head Scan with 16cm Wide-Detector CT

PH259-SD-THB3. Station #3

Education Exhibits

SPACE NO.	EXHIBIT TITLE
UR133-ED-X	Complications of Urinary Tract Surgical Procedures: CT-Urographic Patterns
UR146-ED-X	Adult Ureteropelvic Junction Obstruction Revisited
UR174-ED-X	Update of CT Urography: Current Techniques, Clinical Utility, and New Applications
VI100-ED-X	Interactive 3D Volume Rendering of Cervical Paragangliomas: Current Applications in Vascular Surgery
VI107-ED-X	Multidetector Computed Tomography Evaluation of Spontaneous Non-Arteriosclerotic Coronary Dissection Associated with Fibromuscular Dysplasia: Spectrum of Disease
VI112-ED-X	Preoperative Evaluation of Autogenous Tissue Flap Reconstruction Techniques: What Radiologists Need to Know
VI128-ED-X	CT Angiography Acquisition Timing: Advantages and Disadvantages of Clinical Options
VI129-ED-X	Complications Mimics in the Post-Surgical Aorta
VI130-ED-X	Hemorrhagic Complications of Pancreatitis: The Role of Multidetector CT and Interventional Radiology
VI139-ED-X	Detection of Post-operative Complications after Thoracic and Abdominal Aortic Intervention Using 4-Dimensional Dynamic Computed Tomographic Angiography



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