

RSNA® 2019  
DECEMBER 1-6

# Vascular and/or Interventional Radiology

RADIOLOGICAL SOCIETY  
OF NORTH AMERICA  
105<sup>TH</sup> Scientific Assembly  
and Annual Meeting

*Meeting.RSNA.org*  
#RSNA19

## Walk Through the Week

### Sunday, Dec. 1, 2019

#### Case of the Day

Interventional Radiology Sunday Case of the Day

**Session ED007-SU . . . . . Case of Day, Learning Center**

#### 10:45 AM–12:15 PM

##### Scientific Papers Sessions

Vascular/Interventional (Lung Cancer Science)

**Session SSA24 . . . . . S404CD**

Vascular/Interventional (Embolization)

**Session SSA25 . . . . . S405AB**

#### 12:30–1:00 PM

##### Posters and Exhibits: Discussions

Vascular Interventional Sunday Poster Discussions

**Session VIS-SUA . . . . . VI Community, Learning Center**

#### 1:00–3:00 PM

##### Educational Courses

Interventional Oncology Series: Interventional Therapies for Primary and Metastatic Lung Tumors

**Course VSI011 . . . . . S405AB**

#### 1:00–1:30 PM

##### Posters and Exhibits: Discussions

Vascular Interventional Sunday Poster Discussions

**Session VIS-SUB . . . . . VI Community, Learning Center**

#### 2:00–3:30 PM

##### Educational Courses

Peripheral Artery Disease: CTA and MRA (Interactive Session)

**Course RC112 . . . . . S404CD**

Peripheral and Visceral Occlusive Disease

**Course RC114 . . . . . S103AB**

Making Patients and Staff Safer in Interventional Procedures

**Course RC123 . . . . . E353A**

Tumor Ablation Beyond the Liver: Practical Techniques for Success (Hands-on)

**Course RC131 . . . . . N226**

#### 3:15–5:15 PM

##### Educational Courses

Interventional Oncology Series: Novel Targets for Interventional Oncologists

**Course VSI012 . . . . . S405AB**

### 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 94.00 *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.

Program information is subject to change. For the most up-to-date information, please use your Meeting App or visit [Meeting.RSNA.org](http://Meeting.RSNA.org).

**4:00–5:45 PM****Plenary Sessions**

Sunday Afternoon Plenary Session

**Session PS12** . . . . . **Arie Crown Theater****Monday, Dec. 2, 2019****Case of the Day**

Interventional Radiology Monday Case of the Day

**Session ED007-MO** . . . . . **Case of Day, Learning Center****8:30 AM–12:00 PM****Educational Courses**

Interventional Series: Embolotherapy

**Course RC214** . . . . . **E350****8:30–10:00 AM****Educational Courses**

Emergency Cardiothoracic CT Angiography

**Course RC208** . . . . . **E450B**

Body Imaging Expert Panel: CTA or MRA?

**Course RC212** . . . . . **S104A**

Requirements for Tumor Biopsies in the Age of Precision

Cancer Care

**Course RC224** . . . . . **S404AB****10:30 AM–12:00 PM****Scientific Papers Sessions**

Vascular/Interventional (Spine and Pain Intervention)

**Session SSC15** . . . . . **E263****12:15–12:45 PM****Posters and Exhibits: Discussions**

Vascular Interventional Monday Poster Discussions

**Session VIS-MOA** . . . . . **VI Community, Learning Center****12:45–1:15 PM****Posters and Exhibits: Discussions**

Vascular Interventional Monday Poster Discussions

**Session VIS-MOB** . . . . . **VI Community, Learning Center****1:00–3:00 PM****Educational Courses**

Interventional Oncology Series: Interventional Oncology Basic Science-Progress, Challenges, and Opportunities

**Course VSIO21** . . . . . **E450B****2:00–3:30 PM****Corporate Symposium**

Enhancing Patient Care in CTEPH through Imaging Innovation: Presented by Bayer and Siemens Healthineers

**Session CS26** . . . . . **S105D****3:00–4:00 PM****Scientific Papers Sessions**

Nuclear Medicine (Cardiovascular PET)

**Session SSE17** . . . . . **S403A**

Neuroradiology (Neurointerventional Techniques)

**Session SSE19** . . . . . **S504AB**

Pediatrics (Interventional Radiology)

**Session SSE21** . . . . . **S403B**

Vascular/Interventional (Education and Safety)

**Session SSE26** . . . . . **E260****3:15–5:15 PM****Educational Courses**

Interventional Oncology Series: Primary Liver Cancer-Update on Therapeutic Options and Future Outlook

**Course VSIO22** . . . . . **E450B****Tuesday, Dec. 3, 2019****Case of the Day**

Interventional Radiology Tuesday Case of the Day

**Session ED007-TU** . . . . . **Case of Day, Learning Center****7:15–8:15 AM****Educational Courses**

Houston, We Have a Problem (Case-based Competition)

**Session SPDL30** . . . . . **E451B****8:30–10:00 AM****Educational Courses**

Body MR Angiography: 2019 Update

**Course RC312** . . . . . **N229**

Percutaneous Thoracic Interventions

**Course RC331** . . . . . **S403A**

Live Ultrasound Interventional Procedures: Thermal Ablation, Cyst Aspiration, Abscess Drainage, Vascular Access, Core Biopsy, Foreign Body Removal (Hands-on)

**Course RC352** . . . . . **E264****8:30 AM–12:00 PM****Educational Courses**

Interventional Series: Venous Disease

**Course RC314** . . . . . **E352**

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

Science Session with Keynote: Chest (Pulmonary Vasculature and Angiography/Dual Energy CT)

**Session SSG03** . . . . . **S404CD**

Vascular/Interventional (Liver Cancer)

**Session SSG16** . . . . . **E260**

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

Vascular Interventional Tuesday Poster Discussions

**Session VIS-TUA** . . . . . **VI Community, Learning Center**

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

Vascular Interventional Tuesday Poster Discussions

**Session VIS-TUB** . . . . . **VI Community, Learning Center**

**1:00–3:00 PM****Educational Courses**

Interventional Oncology Series: From Bench to Bedside

**Course VSIO31** . . . . . **S405AB**

**3:00–4:00 PM****Scientific Papers Sessions**

Vascular/Interventional (Aortic Disease)

**Session SSJ25** . . . . . **E352**

Vascular/Interventional (Biliary and Portal Hypertension)

**Session SSJ26** . . . . . **E350**

**3:15–5:15 PM****Educational Courses**

Interventional Oncology Series: Colorectal Liver Metastases

**Course VSIO32** . . . . . **S405AB**

**3:30–5:00 PM****Educational Courses**

Essentials of Trauma Imaging

**Course MSES34** . . . . . **S100AB**

**4:30–6:00 PM****Educational Courses**

Emergency Neuroradiology: Interventional Neuroradiology-What the Emergency Radiologist Needs to Know (at 3 AM) (Interactive Session)

**Course RC408** . . . . . **S402AB**

Diseases of the Thoraco-abdominal Aorta

**Course RC412** . . . . . **S404AB**

Interventional Course (Interactive Session)

**Course RC414** . . . . . **S404CD**

The New Standard of Care of Large Vessel Stroke is Endovascular: Is Your Radiology Practice Ready?

**Course RC431** . . . . . **N229**

**Wednesday, Dec. 4, 2019****Case of the Day**

Interventional Radiology Wednesday Case of the Day

**Session ED007-WE** . . . . . **Case of Day, Learning Center**

**8:30 AM–12:00 PM****Educational Courses**

Vascular Series: MR Angiography-New Techniques and Their Application

**Course RC512** . . . . . **S503AB**

Interventional Series: Reproductive Health Interventions

**Course RC514** . . . . . **S105AB**

**8:30–10:00 AM****Educational Courses**

Case-based Review of Pediatric Radiology (Interactive Session)

**Course MSCP41** . . . . . **E450B**

Update on Radionuclide Therapies

**Course RC511** . . . . . **S504CD**

Vertebral Augmentation (Hands-on)

**Course RC550** . . . . . **E260**

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

Science Session with Keynote: Cardiac (Great Vessels)

**Session SSK04** . . . . . **E352**

Musculoskeletal (Interventional)

**Session SSK14** . . . . . **E353A**

Vascular/Interventional (Peripheral Arterial Disease)

**Session SSK21** . . . . . **E260**

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

Vascular Interventional Wednesday Poster Discussions

**Session VIS-WEA** . . . . . **VI Community, Learning Center**

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

Vascular Interventional Wednesday Poster Discussions

**Session VIS-WEB** . . . . . **VI Community, Learning Center**

**1:00–3:00 PM****Educational Courses**

Interventional Oncology Series: Renal Ablation/Embolization

**Course VSIO41** ..... **S405AB****1:30–3:00 PM****Educational Courses**

RSNA/ESR Sports Imaging Symposium: Musculoskeletal

Interventional Procedures (Interactive Session)

**Session MSSR43** ..... **E350****3:00–4:00 PM****Scientific Papers Sessions**

Neuroradiology (Vascular, Non-Stroke)

**Session SSM20** ..... **S502AB**

Vascular/Interventional (Mixed Oncology/Embolization Science)

**Session SSM25** ..... **S403B**

Vascular/Interventional (Liver Cancer Basic Science)

**Session SSM26** ..... **S403A****3:15–5:15 PM****Educational Courses**

Interventional Oncology Series: Clinical Trials in Interventional Oncology

**Course VSIO42** ..... **S405AB****Thursday, Dec. 5, 2019****Case of the Day**

Interventional Radiology Thursday Case of the Day

**Session ED007-TH** ..... **Case of Day, Learning Center****8:30–10:00 AM****Educational Courses**

Pulmonary Vascular Imaging

**Course RC601** ..... **S103CD**

Abdominal Doppler: What You Need to Know

**Course RC610** ..... **E351**

Optimization and Technology in Interventional Radiology

**Course RC623** ..... **S503AB**

Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain (Hands-on)

**Course RC631** ..... **E263**

Fallopian Tube Catheterization (Hands-on)

**Course RC650** ..... **E260**

Live Ultrasound Interventional Procedures: Joint Injections, Cyst Aspiration, Abscess Drainage, Vascular Access, Core Biopsy, and Foreign Body Removal (Hands-on)

**Course RC652** ..... **E264**

How to Prepare 3D Models to Develop Multi-material 3D Printed Vascular Phantoms (Hands-on)

**Course RCA51** ..... **S401AB****8:30 AM–12:00 PM****Educational Courses**

Vascular Series: CT Angiography-New Techniques and Their Application

**Course RC612** ..... **S405AB**

Interventional Series: Non-Vascular Interventions

**Course RC614** ..... **N227B****10:30 AM–12:00 PM****Scientific Papers Sessions**

Science Session with Keynote: Cardiac (Valvular Imaging and Intervention)

**Session SSQ02** ..... **E353C**

Chest (Interventional/Systemic Vasculature)

**Session SSQ04** ..... **E451A**

Vascular/Interventional (Lymphatic, AVM, and Venous Interventional Radiology)

**Session SSQ20** ..... **S503AB****12:15–12:45 PM****Posters and Exhibits: Discussions**

Vascular Interventional Thursday Poster Discussions

**Session VIS-THA** ..... **VI Community, Learning Center****12:45–1:15 PM****Posters and Exhibits: Discussions**

Vascular Interventional Thursday Poster Discussions

**Session VIS-THB** ..... **VI Community, Learning Center****1:00–3:00 PM****Educational Courses**

Interventional Oncology Series: Musculoskeletal Intervention

**Course VSIO51** ..... **S405AB****3:00–4:00 PM****Educational Courses**

Peds, IR, Potpourri (Case-based Competition)

**Session SPDL51** ..... **E451B**

**3:15–5:15 PM****Educational Courses**

Interventional Oncology Series: International Interventional Oncology-South Korea Presents

**Course VSI052** . . . . . **S405AB**

**4:30–6:00 PM****Educational Courses**

CT of Structural Heart Disease: Guiding Interventional Procedures

**Course RC703** . . . . . **E350**

CTA for TAVR and Other Aortic Valve Replacements

**Course RC712** . . . . . **E352**

Morbidity and Mortality

**Course RC714** . . . . . **S502AB**

Image-guided Biopsy of the Spine (Hands-on)

**Course RC731** . . . . . **E263**

**Friday, Dec. 6, 2019****8:30–10:00 AM****Educational Courses**

Body CT Angiography: 2019 Update

**Course RC812** . . . . . **E351**

Carotid and Renal Doppler (Hands-on)

**Course RC852** . . . . . **E264**

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

Neuroradiology (Vascular and Interventions)

**Session SST07** . . . . . **E353A**

Vascular/Interventional (Tumor Ablation & Biopsy)

**Session SST10** . . . . . **E451B**

**Posters and Exhibits Discussions**

*[CME is available when the author is present for discussion during the lunch period]*

**Sunday, Dec. 1, 2019****12:30–1:00 PM****Scientific Posters**

Ablation Therapy of Non-Colorectal Cancer Lung Metastases: Retrospective Analysis of Tumor Response Post-Radiofrequency Ablation (RFA) and Microwave Ablation (MWA)

**VI240-SD-SUA6** . . . . . **Station #6**

Assessment of Semiquantitative Parameters of Dynamic Contrast-Enhanced Perfusion MR Imaging in Predicting the Nonperfused Volume Ratio of at Least 80%: High-Intensity Focused Ultrasound Ablation of Uterine Fibroids

**VI200-SD-SUA1** . . . . . **Station #1**

Diagnosis of Deep Vein Thrombosis Using a DANTE-prepared FLASH Sequence

**VI201-SD-SUA2** . . . . . **Station #2**

Hepatic Pseudoaneurysm Formation After Blunt and Penetrating Traumatic Liver Injury: A Level 1 Trauma Center Experience

**VI239-SD-SUA5** . . . . . **Station #5**

Magnetic Resonance Angiography Derived Predictors of Aortic Root Dilation in Marfan Syndrome

**VI202-SD-SUA3** . . . . . **Station #3**

Percutaneous Laser Ablation under Ultrasound-Guidance of Normal Thyroid Gland in a Swine Model

**VI238-SD-SUA4** . . . . . **Station #4**

**12:30–1:00 PM****Education Exhibits**

US-Guided Localization and Removal of Soft-Tissue Foreign Bodies: How We Do It

**VI128-ED-SUA7** . . . . . **Station #7**

When There is No Rectum: CT-Guided Targeted and Sextant Prostate Biopsy

**VI129-ED-SUA8** . . . . . **Station #8**

**1:00–1:30 PM****Scientific Posters**

Cervical Pleural Thickening: A Risk Factor for Endovascular Treatment of Tuberculosis-Related Hemoptysis

**VI243-SD-SUB6** . . . . . **Station #6**



Evaluation of Outcomes Following Pulmonary Artery Stenting in Fibrosing Mediastinitis

**VI203-SD-SUB1 . . . . . Station #1**

Microwave Ablation of Lung Tumors: Early Radiological Parameters Determining the Treatment Outcome

**VI242-SD-SUB5 . . . . . Station #5**

The Initial Experience of 2D-Perfusion Angiography-Guided Balloon Pulmonary Angioplasty

**VI204-SD-SUB2 . . . . . Station #2**

Transperineal Laser Ablation (TPLA) for the Treatment of Lower Urinary Symptoms in Benign Prostatic Hyperplasia (BPH)

**VI205-SD-SUB3 . . . . . Station #3**

Value of Virtual Monochromatic Spectral Images with Metal Artifact Reduction Algorithm in Dual-Energy Spectral CT-Guided Microcoil Localization for Pulmonary Nodules

**VI241-SD-SUB4 . . . . . Station #4**

## Monday, Dec. 2, 2019

### 12:15–12:45 PM

#### Scientific Posters

Accuracy and Performance Evaluation of a Smartphone-Based Augmented Reality Needle Guidance Platform

**VI226-SD-MOA3 . . . . . Station #3**

Endovascular Treatment of Congenital Portosystemic Shunts: Single-Centre Prospective Study

**VI231-SD-MOA6 . . . . . Station #6**

Feasibility and Clinical Value of CT-Guided 125I Brachytherapy in Patients with Retroperitoneal Lymph Nodes Metastatic for Pain Palliation after Conventional Therapy Failure

**VI232-SD-MOA7 . . . . . Station #7**

MRI Markers of Disease Activity and Predictors of Progressive Arterial Disease in Takayasu Arteritis

**VI225-SD-MOA2 . . . . . Station #2**

Quantitative Inflammatory and Imaging Biomarkers for the Prediction of Tumor Response to DEB-TACE in HCC

**VI233-SD-MOA4 . . . . . Station #4**

The Efficacy and Safety of Magnetic Resonance-Guided High-Intensity Focused Ultrasound Ablation of Pedunculated Subserosal Leiomyoma

**VI206-SD-MOA1 . . . . . Station #1**

The Feasibility of Adaptive Statistical Iterative Reconstruction-V for Reducing Radiation Dose and Contrast Agent in CT Portal Venography with "Three-Low" Technique

**VI230-SD-MOA5 . . . . . Station #5**

### 12:15–12:45 PM

#### Education Exhibits

All About and How We Do Prostate Artery Embolization (PAE): Indication, Optimal Preparation, Technique, Imaging Analyses, and Complications

**VI132-ED-MOA8 . . . . . Station #8**

Identification of Forearm Muscles with Dynamic Ultrasound Imaging for Botulinum Toxin Injection and Image Guided Botox Injections

**VI001-EB-MOA . . . . . Hardcopy Backboard**

### 12:45–1:15 PM

#### Scientific Posters

Comparison between Percutaneous Balloon Vesselplasty and Percutaneous Vertebroplasty in Chronic Painful Compression Fractures of Dorsolumbar Spine

**VI237-SD-MOB4 . . . . . Station #4**

Impact of an Electromagnetic Navigation System on Dose Radiation Exposure: A Comparative Retrospective Study

**VI235-SD-MOB7 . . . . . Station #7**

Magnetic Resonance Imaging for Tracking Tumor Progression and Identifying Optimal Timepoint for Intervention with Embolization Treatment

**VI236-SD-MOB5 . . . . . Station #5**

Qualitative Study of Patients with Low-Flow Venous Malformation: Symptom Experiences and Content Validity of Patient-Reported Outcome Measures

**VI234-SD-MOB6 . . . . . Station #6**

The Role of Magnetic Resonance Imaging in Predicting the Outcome of High-Intensity Focused Ultrasound Treatment of Adenomyosis

**VI207-SD-MOB2 . . . . . Station #2**

Transperineal US-Guided Focal Laser Ablation (TPLA) in Treatment of Low and Intermediate Risk Prostate Cancer: Feasibility Multicentric Study at 6- and 12-Month Follow-Up

**VI224-SD-MOB1 . . . . . Station #1**

Value of 3D Rotational Epidurography on Percutaneous Epidural Adhesiolysis

**VI208-SD-MOB3 . . . . . Station #3**

**12:45–1:15 PM****Education Exhibits**

Algorithmic Approach to Assess Pulmonary Embolism on Dual-Energy Spectral Detector Computed Tomography (SDCT): Overcoming the Pitfalls of Conventional CT

**VI133-ED-MOB9** ..... **Station #9**

Radiofrequency Ablation Guided by Ultrasonography: Tips and Tools to Improve Results in Benign Thyroid Nodules

**VI134-ED-MOB8** ..... **Station #8**

**Tuesday, Dec. 3, 2019****12:15–12:45 PM****Scientific Posters**

"SpineJack®" Percutaneous Placement in Magerl A2 and A3 Traumatic Vertebral Compression Fractures of the Thoracolumbar Spine

**VI227-SD-TUA1** ..... **Station #1**

Combined MR Imaging for Pulmonary Embolism and Deep Venous Thrombosis by Contrast-Enhanced MR Volume Interpolated Body Examination

**VI255-SD-TUA7** ..... **Station #7**

Comparison of Early Tissue Shrinkage Following Hepatic Microwave Ablation and Multipolar Radiofrequency Ablation in an In-Vivo Porcine Liver Model in CECT

**VI256-SD-TUA8** ..... **Station #8**

CT-Perfusion in Peripheral Arterial Disease - Correlation of Baseline with Post-interventional Perfusion Parameters

**VI229-SD-TUA3** ..... **Station #3**

Feasibility of Four-Dimensional Flow MRI to Assess Portal Pressure Gradient in Healthy Volunteers

**VI258-SD-TUA5** ..... **Station #5**

Impact of Dynamic Intima Motion on Renal Injury in Patients with Type B Acute Aortic Dissection: Quantitative Assessment with Dose-Regulated Retrospectively ECG-gated CT Angiography in Dual-Source CT

**VI254-SD-TUA6** ..... **Station #6**

Local Tumor Control and Survival Rates in Unresectable or Recurrent Hepatic Cholangiocarcinoma (CCC): Transarterial Chemoembolization (TACE) versus Combined TACE and Microwave Ablation (MWA)

**VI257-SD-TUA4** ..... **Station #4**

The Influence of High-Intensity Focused Ultrasound Ablation of Uterine Diseases with an Immediate Non-Perfused Volume Ratio > 90% on Ovarian Reserve

**VI228-SD-TUA2** ..... **Station #2**

**12:15–12:45 PM****Education Exhibits**

Fire Burn and Cauldron Bubble: Contrast-Enhanced Ultrasound for Abdominal Interventions

**VI136-ED-TUA9** ..... **Station #9**

Transcaval Approach for Embolization of Abdominal Aortic Aneurysm Type II Endoleak

**VI135-ED-TUA10** ..... **Station #10**

**12:45–1:15 PM****Scientific Posters**

Antitumor Effects of Transarterial Embolization and Simultaneous Treatment with Lenvatinib and Transarterial Embolization in a Rabbit VX2 Liver Tumor Model

**VI261-SD-TUB5** ..... **Station #5**

Clinical Utility of Time Resolved MRA in Characterizing Complex Vascular Malformations: Correlation with Digital Subtraction Catheter Angiography and High Spatial Resolved MRA

**VI209-SD-TUB1** ..... **Station #1**

Comparative Outcomes of IVC Filters Placed at Bedside Using Digital Radiography versus Conventional Fluoroscopy

**VI210-SD-TUB2** ..... **Station #2**

False Lumen Enhancement Characteristics on Computed Tomography Angiography Predict Risk of Aneurysm Formation Among Acute Type B Aortic Dissection Patients

**VI260-SD-TUB7** ..... **Station #7**

Impact of Tissue Vascularity on the Outcome of High-Intensity Focused Ultrasound (HIFU) Treatment of Adenomyosis

**VI211-SD-TUB3** ..... **Station #3**

Intra-Procedural Transcatheter Intra-Arterial Contrast-Enhanced Ultrasonography as a Predictor of Tumor Response in Transarterial Conventional Chemoembolization for Hepatocellular Carcinoma

**VI262-SD-TUB4** ..... **Station #4**

The Diagnostic Performance of Dual-Layer Computed Tomography for Deep-Vein Thrombosis in Indirect Computed Tomography Venography

**VI259-SD-TUB6** ..... **Station #6**

**12:45–1:15 PM****Education Exhibits**

Don't Ever Go with the Flow, Be the Flow: A Comprehensive Pictorial Review of B-Flow Ultrasonography

**VI138-ED-TUB9** ..... **Station #9**

Pelvic Congestion Syndrome: Normal Anatomy and Multimodality Imaging Evaluation of an Underdiagnosed Disease

**VI137-ED-TUB8** ..... **Station #8**





## Wednesday, Dec. 4, 2019

### 12:15–12:45 PM

#### Scientific Posters

Capembol: Safety, Feasibility and Early Oncological Outcomes of Prostatic Artery Embolization in the Management of Low-Grade Localized Prostate Cancer in Patients Candidate to Active Surveillance: A Monocentric Pilot Study - Preliminary Results

**VI212-SD-WEA1** ..... Station #1

Effect of Hepatic Flow Parameters on Coagulation Range of Radiofrequency Ablation in Liver Malignancies Patients: A Prospective Clinical Study

**VI266-SD-WEA4** ..... Station #4

Effects of Oxytocin on High-Intensity Focused Ultrasound Ablation of Leiomyoma: A Clinical Trial Study

**VI214-SD-WEA3** ..... Station #3

Evaluation of Technical Success and Complication Rates Following Endovascular Thrombolysis Interventions

**VI263-SD-WEA6** ..... Station #6

Measurement of Scatter Radiation Dose to the Eye of Interventional Radiologists Performing Fluoroscopically Guided Procedures: Are You Sure You Are Protected?

**VI213-SD-WEA2** ..... Station #2

Non-Contrast-Enhanced Renal MRA Using Multi-Shot Gradient Echo EPI at 3-T MR System

**VI267-SD-WEA5** ..... Station #5

Split Renal Function after Treatment of Small Renal Masses: Comparison between Radiofrequency Ablation and Laparoscopic Partial Nephrectomy

**VI264-SD-WEA7** ..... Station #7

### 12:15–12:45 PM

#### Education Exhibits

Apneic Ventilation Strategies to Limit Respiratory Motion During Percutaneous Ablation

**VI142-ED-WEA10** ..... Station #10

Five Stages of Artifacts: Denial, Anger, Bargaining, Depression, and Acceptance

**VI139-ED-WEA9** ..... Station #9

### 12:45–1:15 PM

#### Scientific Posters

Can Computational Fluid Dynamics Predict the Progression of Visceral Artery Aneurysms?

**VI216-SD-WEB2** ..... Station #2

Computed Tomography-Guided Percutaneous Radiofrequency Ablation of the Splanchnic Nerves for Pain Reduction in Patients with Pancreatic Cancer

**VI269-SD-WEB7** ..... Station #7

Digital Variance Angiography as a Risk Reduction Measure in Peripheral Endovascular Interventions

**VI271-SD-WEB5** ..... Station #5

Radiomics Analysis to Predict Progression-Free Survival for Patients of RFA by using Deep Learning in Contrast-Enhanced Ultrasound

**VI270-SD-WEB8** ..... Station #8

The Future Liver Remnant in Associating Liver Partition with Portal Vein Ligation or Embolization

**VI215-SD-WEB1** ..... Station #1

The Guiding Value of 3D-BRAVO and 3D TOF MRA for Microvascular Decompressing

**VI272-SD-WEB4** ..... Station #4

The Impact of Tissue Characteristics on Outcome of High-Intensity Focused Ultrasound Treatment of Uterine Leiomyomas

**VI217-SD-WEB3** ..... Station #3

Time-Driven Activity-Based Costing in Interventional Oncology: Calculating the Longitudinal Costs of Care for Multidisciplinary HCC Care

**VI268-SD-WEB6** ..... Station #6

### 12:45–1:15 PM

#### Education Exhibits

Exploring the Sub-Voxel: Basics of CT Angiographic Microvascular Reconstruction and Its Role in Enhancing 3D Mesh Creation

**VI140-ED-WEB10** ..... Station #10

Percutaneous Omental Biopsies: A Safe and Non-Surgical Method in Evaluation of Abdominal Disease

**VI141-ED-WEB9** ..... Station #9

## Thursday, Dec. 5, 2019

### 12:15–12:45 PM

#### Scientific Posters

Biodegradable versus Multiple Plastic Stent Implantation in Benign Biliary Strictures: A Systematic Review and Meta-Analysis

**VI245-SD-THA6** ..... Station #6

Classification of Geniculate Arterial Patterns with Implications for Interventional Radiologist

**VI218-SD-THA1** ..... Station #1



Combined CT-Guided Biopsy with Tissue Examination and Outer Cannula Washing Cytology: Technique and Outcomes  
**VI246-SD-THA7** ..... **Station #7**

Doppler-Based Renal Perfusion Variations After Fenestrated/ Branched Endovascular Repair and Post-Operative Renal Function Outcomes  
**VI219-SD-THA2** ..... **Station #2**

Feasibility and Clinical Value of CT-Guided 125I Brachytherapy for Metastatic Soft Tissue Sarcoma after First-Line Chemotherapy Failure  
**VI244-SD-THA5** ..... **Station #5**

Inpatient Placement of a Subcutaneous Venous Access Ports is Not a Risk Factor for Port Infection  
**VI248-SD-THA4** ..... **Station #4**

MR-Guided Focused Ultrasound (MRgFUS) Compared to the Main Current Therapeutic Approaches for the Treatment of Uterine Fibroids: MR-Guided Focused Ultrasound (MRgFUS) Compared to the Main Current Therapeutic Approaches for the Treatment of Uterine  
**VI220-SD-THA3** ..... **Station #3**

The Utility of Test Bolus for Improving Low Iodine Dynamic 4D CTA in the Diagnosis of Lower Extremity Peripheral Vascular Disease  
**VI247-SD-THA8** ..... **Station #8**

## 12:15–12:45 PM

### Education Exhibits

When It's Not a Deep Venous Thrombosis (DVT): A Pictorial Review of Alternate Causes of Swollen Limb or Pain in "Rule-Out" DVT Exams  
**VI143-ED-THA9** ..... **Station #9**

## 12:45–1:15 PM

### Scientific Posters

A Comparison between Laparoscopic and Open Surgery Following Self-Expandable Metallic Stent Placement for Malignant Colorectal Obstruction and an Assessment of Long-Term Oncological Outcomes  
**VI222-SD-THB2** ..... **Station #2**

Day-Clinic High-Intensity Focused Ultrasound (HIFU) Focal Therapy to Primary Treatment of Localized Prostate Cancer: Initial Experience of 37 Patients  
**VI250-SD-THB6** ..... **Station #6**

Evaluation of Blood Pressure Variations on CTA Geometries of Abdominal Aortic Aneurysms and CTA Protocol Recommendations on Blood Pressure Measurements for Maintaining Mechanical Simulation Viability  
**VI252-SD-THB8** ..... **Station #8**

Particle Embolization for Treatment of Acute Lower Gastrointestinal Hemorrhage is Associated with Higher Rates of Ischemic Bowel Complications: A Single-Center Retrospective Analysis  
**VI221-SD-THB1** ..... **Station #1**

Power of Lipiodol-Enhancement in CT-Guided Biopsies of Unspecified Suspect Intrahepatic Lesions: Improvement of Accuracy and Safeness  
**VI251-SD-THB7** ..... **Station #7**

Radiologic and Clinical Factors Predicting Survival Following Hepatic Arterial Infusion Chemotherapy in Advanced Hepatocellular Carcinoma  
**VI249-SD-THB5** ..... **Station #5**

Retrospective Multivariate Study of the Clinical Outcomes in Patients Affected by Different Grades of Varicocele Treated using Different Endovascular Approaches  
**VI253-SD-THB4** ..... **Station #4**

The Clinical Characteristics and Drug Resistance of Pyogenic Liver Abscess Caused By Extended-Spectrum Beta-Lactamase-Producing Klebsiella Pneumoniae  
**VI223-SD-THB3** ..... **Station #3**

## 12:45–1:15 PM

### Education Exhibits

Complications of an Ileal Conduit after Radical Cystectomy: Interventional Radiologic Management  
**VI144-ED-THB9** ..... **Station #9**



## Education Exhibits

### SPACE No.

### EXHIBIT TITLE

<b>VI002-EB-X</b>	Comprehensive and Comparative Overview of Peripheral Artery Disease Imaging
<b>VI003-EB-X</b>	Contrast-Enhanced Ultrasound (CEUS) in the Assessment of Carotid Atherosclerotic Disease: A Seldom-used Technique to Understand Pathophysiology of Atherosclerotic Plaque Progression and Assess Risk of Thrombosis and Stroke
<b>VI100-ED-X</b>	Diagnosis and Management of the Bile Duct Infarction: A Serious Complication of Transarterial Therapy of Liver Tumors
<b>VI101-ED-X</b>	Are We Competent to Diagnose Incompetence in Veins? The Plumbing Details Needed for Accurate Interpretation
<b>VI102-ED-X</b>	Transvenous Application of N-butyl Cyanoacrylate (NBCA) Glue
<b>VI103-ED-X</b>	Optimizing Ultrasound Images, Diagnostic Accuracy and Confidence: A Primer for Residents, Practicing Radiologists, and Sonographers
<b>VI104-ED-X</b>	Subtraction CT Angiography of Peripheral Artery with Orbital Synchronized Helical Scanning Using Characteristic of Organ-Based Tube Current Modulation
<b>VI105-ED-X</b>	CT-Guided Cryoablation for Lung Tumors: Basic and Advanced Techniques
<b>VI106-ED-X</b>	Magnetic Resonance-Thoracic Ductography (MRTD): Importance of Thoracic Duct (TD) Configuration for Intervention (IR)
<b>VI107-ED-X</b>	Evaluation of Peripheral Vascular Disease Using CT and MR Angiography
<b>VI108-ED-X</b>	Seeing the Forest for the Trees: The New Systemic Options to Treat Hepatocellular Carcinoma
<b>VI109-ED-X</b>	Aortic Dissection and Acute Aortic Syndromes: Diagnostic Imaging Findings from Acute to Chronic Longitudinal Progression

### VI110-ED-X

Case-based Learning during Anatomy Block as a Modality for Preclinical Interventional Radiology Education: Successes and Challenges

### VI111-ED-X

Minimally-Invasive Endoscopic and Surgical Procedures in Management of Patients with Complicated Necrotizing Pancreatitis: What an Interventional Radiologist Needs to Know

### VI112-ED-X

Imaging and Interventional Procedures of the Lymphatic System

### VI113-ED-X

When Everything is NOT under Control: Aortic Endoleaks

### VI114-ED-X

Endovascular Management of Frostbite: Role of Intra-Arterial tPA

### VI115-ED-X

Transradial Access: Review of Complications, Strategies to Minimize Risk, and Management of Complications

### VI116-ED-X

Blunt Abdominal Trauma: A Primer for the Radiologist of Solid Organ Injuries

### VI117-ED-X

Chyle Leaks: All You Need to Know

### VI118-ED-X

Anatomy and Pathologies of the Renal Arteries with Implications for Modern Endovascular Management

### VI119-ED-X

Practical Applications of Lymphangiography and Lymphatic Interventions

### VI120-ED-X

Immune Effector Cell Therapy for Solid Tumors: Opportunities for Interventional Radiology

### VI121-ED-X

Novel Imaging Techniques and Algorithmic Approach to Diagnosis and Management of Vascular Anomalies

### VI122-ED-X

Contrast-Enhanced Ultrasound for Challenging Abdominal Interventions

### VI123-ED-X

The Bleeding Point: Manifestations of Hemorrhage and Related Pathologies - With Mimics and Pitfalls

### VI124-ED-X

Comparison of Non-Contrast MR Angiography to CT Angiography to Evaluate the Access Route of Transfemoral Transcatheter Aortic Valve Replacement

### VI125-ED-X

Tips for Tips: A Resident's Survival Guide



- VI126-ED-X Arterial and Venous Visceral Aneurysms and Pseudoaneurysms: A Pictorial Review
- VI130-ED-X Creating Low-cost Phantoms for IR Skills Training
- VI131-ED-X Depiction of Reachable Bronchi of Peripheral Lung Nodule for Transbronchial Approach by Ultra-High Resolution CT (UHRCT)



## GET THE MOST OUT OF RSNA 2019 WITH VIRTUAL MEETING

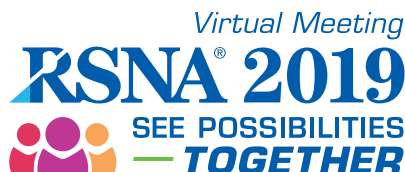
Enjoy all the excitement of the meeting and get the content you need during and after RSNA 2019.

- ✚ 400+ live and on-demand courses
- ✚ CME credit for Cases of the Day and live and select on-demand courses
- ✚ Scientific presentations and education exhibits
- ✚ Access through April 30, 2020

Upgrade your package to **Standard + Virtual** at



**RSNA.org/Register**



## RSNA's library of detailed procedure-specific radiology reporting templates



RSNA's reporting initiative is improving radiology reporting practices by building a library of clear and consistent report templates.

More than **300,000** downloads to-date, with over **300** templates in **20** radiology subspecialties and **15** languages available. Visit the Informatics Community, Learning Center, Hall D or *RadReport.org* to learn more.