104th Scientific Assembly and Annual Meeting
Radiological Society of North America
McCormick Place, Chicago

November 25–30
Meeting.RSNA.org  #RSNA18
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.

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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.
Walk Through The Week

SUNDAY, NOV 25, 2018
Case of the Day
Ultrasound Sunday Case of the Day
Session ED014-SU . . . . . . . Case of Day, Learning Center

10:45 AM–12:15 PM
Scientific Papers Sessions
Physics (Ultrasound in Imaging and Radiation Therapy)
Session SSA20. . . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD

2:00–3:30 PM
Educational Courses
Second and Third Trimester Obstetrical Ultrasound
Course RC110 . . . . . . . . . . . . . . . . . . . . . . . . . . . N228
Emerging Technology: Contrast Enhanced Ultrasound - Update 2018
Course RC117 . . . . . . . . . . . . . . . . . . . . . . . . . . . S504CD
Nerve Ultrasound Based on a Regional Approach: Hip to Knee (Hands-on)
Course RC152 . . . . . . . . . . . . . . . . . . . . . . . . . . . E264

MONDAY, NOV 26, 2018
Case of the Day
Ultrasound Monday Case of the Day
Session ED014-MO . . . . . . . Case of Day, Learning Center

8:30–10:00 AM
Educational Courses
Evolving Imaging Methods for the Cancer Patient - Part 1 (Interactive Session)
Course MSAS21 . . . . . . . . . . . . . . . . . . . . . . . . . . . S105AB
Molecular Imaging Symposium: Basics of Molecular Imaging
Course MSMI21 . . . . . . . . . . . . . . . . . . . . . . . . . . . S405AB
Advances in Gynecologic Ultrasound
Course RC210 . . . . . . . . . . . . . . . . . . . . . . . . . . . S504AB
Emerging Technology: Elastography - Update 2018
Course RC217 . . . . . . . . . . . . . . . . . . . . . . . . . . . S504CD
Hands-on Musculoskeletal Ultrasound: A Forum for Question and Answer (Hands-on)
Course RC231 . . . . . . . . . . . . . . . . . . . . . . . . . . . E258
Carotid and Renal Doppler (Hands-on)
Course RC252. . . . . . . . . . . . . . . . . . . . . . . . . . . . . E264
10:30 AM–12:00 PM
Scientific Papers Sessions
Science Session with Keynote: Gastrointestinal (LiRADS)
Session SSC05 ............................... N228
Gastrointestinal (Liver Diffuse Disease, Fibrosis)
Session SSC06 ............................... N229

3:00–4:00 PM
Scientific Papers Sessions
Gastrointestinal (Advanced Liver Ultrasound Techniques)
Session SSE07 ............................... S402AB
Neuroradiology/Head and Neck (Thyroid and Parathyroid Imaging)
Session SSE18 ............................... E351

TUESDAY, NOV 27, 2018
Case of the Day
Ultrasound Tuesday Case of the Day
Session ED014-TU  ........ Case of Day, Learning Center

8:30–10:00 AM
Educational Courses
Ultrasound in the First Trimester of Pregnancy
Course RC310 ............................... S405AB
Challenging Cases in Body Oncologic Imaging (Interactive Session)
Course RC318 ............................... E353A
Evolving Perspectives on Ultrasound Safety
Course RC323 ............................... S504AB
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
Musculoskeletal Series: Ultrasound
Course RC304 ............................... E450A
10:30 AM–12:00 PM
Scientific Papers Sessions
Breast Imaging (Ultrasound Screening and Diagnostic Indications)
Session SSG01 . . . . . . . . . . . . . . . . . . . . . . . . . . . S406A

1:30–2:45 PM
Plenary Sessions
Tuesday Afternoon Plenary Session
Session PS30 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Arie Crown Theater

2:00–3:30 PM
Corporate Symposium
Ultrasound Enhancing Agent Use in the Clinical Setting: An Up-to-date Overview for Your Clinical Practice: Presented by Northwest Imaging Forums, educational grant provided by Bracco Diagnostics, Inc.
Session CS36 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S105D

3:00–6:00 PM
Educational Courses
Pediatric Series: Gastrointestinal/Genitourinary
Course RC413 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . N228

3:00–4:00 PM
Scientific Papers Sessions
Breast Imaging (US Advanced Applications)
Session SSJ02 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E353C
Science Session with Keynote: Genitourinary (Benign Gynecologic Disease)
Session SSJ10 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S404CD
Musculoskeletal (Muscle, Tendon and Nerve)
Session SSJ16 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E353B

4:30–6:00 PM
Educational Courses
Emergency Ultrasound Pitfalls
Course RC408 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD
Neck Sonography: TI-RADS, Parathyroids, and Other Masses
Course RC410 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . N227B
Tips, Tricks and Pitfalls in Body Oncological Imaging: Experts Tell All
Course RC418 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . N229
US for Thyroid Cancer: Diagnosis, Surveillance, and Treatment
Course RC450 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E261
Dynamic Musculoskeletal US: Clicks and Clunks of the Upper Extremity (Hands-on)
Course RC452 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E264
WEDNESDAY, NOV 28, 2018

Case of the Day
Ultrasound Wednesday Case of the Day
Session ED014-WE . . . . . . . Case of Day, Learning Center

8:00–9:00 AM
Educational Courses
ASRT@RSNA 2018: Ultrasound versus MRI for Imaging of the Female Pelvis
Course MSRT41 . . . . . . . . . . . . . . . . . . . . . . . . . . . N230B

8:30–10:00 AM
Educational Courses
Renal and Scrotal Ultrasound with Renal Contrast and Elastography
Course RC510 . . . . . . . . . . . . . . . . . . . . . . . . . . . E350
BI-RADS Interactive Challenge (Interactive Game)
Course RC515 . . . . . . . . . . . . . . . . . . . . . . . . . . . N227B
Liver Elastography (Hands-on)
Course RC552 . . . . . . . . . . . . . . . . . . . . . . . . . . . E264

8:30 AM–12:00 PM
Educational Courses
Pediatric Series: Pediatric Radiology
Course RC513 . . . . . . . . . . . . . . . . . . . . . . . . . . . S405AB

10:30 AM–12:00 PM
Scientific Papers Sessions
Gastrointestinal (Liver Diffuse Disease, Steatosis)
Session SSK07 . . . . . . . . . . . . . . . . . . . . . . . . . . . S402AB

3:00–4:00 PM
Scientific Papers Sessions
Gastrointestinal (Gallbladder and Bile Ducts)
Session SSM09 . . . . . . . . . . . . . . . . . . . . . . . . . . . S503AB
Genitourinary (Pelvic Ultrasound: Male and Female)
Session SSM10 . . . . . . . . . . . . . . . . . . . . . . . . . . . E353A
Pediatrics (Interventional Radiology)
Session SSM20 . . . . . . . . . . . . . . . . . . . . . . . . . . . E260

4:30–6:00 PM
Educational Courses
Controversy Session: CT or MRI after Equivocal Appendix Visualization on Pediatric Ultrasound?
Session SPSC43 . . . . . . . . . . . . . . . . . . . . . . . . . . . N226
### THURSDAY, NOV 29, 2018

#### Case of the Day
Ultrasound Thursday Case of the Day  
**Session ED014-TH** Case of Day, Learning Center

#### 8:30–10:00 AM

**Educational Courses**

Case-based Review of Musculoskeletal Radiology (Interactive Session)  
**Course MSCS51** S100AB

Liver and Biliary Tree, Including Doppler, Contrast, and Elastography  
**Course RC610** S102CD

Advanced Ultrasound Technology and Applications  
**Course RC623** S404CD

Live Ultrasound Interventional Procedures: Joint Injections, Cyst Aspiration, Abscess Drainage, Vascular Access, Core Biopsy, and Foreign Body Removal (Hands-on)  
**Course RC652** E264

#### 1:30–3:00 PM

**Educational Courses**

Case-based Review of Ultrasound (Interactive Session)  
**Course MSCU51** E450B

#### 3:30–5:00 PM

**Educational Courses**

Case-based Review of Ultrasound (Interactive Session)  
**Course MSCU52** E450B

#### 4:30–6:00 PM

**Educational Courses**

Vascular Ultrasound and Doppler  
**Course RC710** N226

US-guided Interventional Breast Procedures (Hands-on)  
**Course RC752** E264

### FRIDAY, NOV 30, 2018

#### 8:30–10:00 AM

**Educational Courses**

Pediatric Sonography (Interactive Session)  
**Course RC813** E353B

Breast Elastography (Hands-on)  
**Course RC852** E264
10:30 AM–12:00 PM
Scientific Papers Sessions
Genitourinary (Imaging of Pregnancy)
Session SST04 ................................. E260

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
Detection of Calcification in the Breast Using Ultrasound
Tomography: A Feasibility Study
PH202-SD-SUA3 ............................... Station #3

The Echogenic Appearance of the Diabetic Deltoid Muscle on
Shoulder Ultrasound: Is This Simply from Adipose Tissue
Infiltration, Can This Appearance Predict Type 2 Diabetes and
be Used to Detect Pre-Diabetes?
MK346-SD-SUA1 ............................... Station #1

1:00–1:30 PM
Scientific Posters
3D Contrast-enhanced Ultrasound and 3D Ultrasound
Molecular Imaging for Response Assessment in Models of
Triple-negative Breast Cancer
PH207-SD-SUB3 ............................... Station #3

1:00–1:30 PM
Education Exhibits
Breast Elastography: How Does It Help? Interactive Case
Review Including Helpful Tips for Incorporating Elastography
in Your Practice
BR173-ED-SUB9 ............................... Station #9

MONDAY, NOV 26, 2018
12:15–12:45 PM
Scientific Posters
Retrospectively Evaluation of Contrast-Enhanced Ultrasound
Liver Imaging Reporting and Data System on 2022 Nodules
and Proposed Adjustments to Improve the Diagnostic
Performance
GI342-SD-MOA5 ............................... Station #5
12:15–12:45 PM
Education Exhibits
Pitfalls, Tricks, and Tips in the Sonographic Evaluation of Breast. What the Radiology Residents Need to Know?
BR178-ED-MOA9. . . . . . . . . . . . . . . . . . . . . . . Station #9

12:45–1:15 PM
Scientific Posters
Does the Tumor Stiffness of Shear Wave Elastography Correlate with Tumor Hypoxia or Fibrosis of Breast Cancer?
BR235-SD-MOB1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

The Value of Shear Wave Elastography and Contrast Enhanced Ultrasound for Benign-Malignant Lymph Nodes Differentiation in Rabbits
PH218-SD-MOB1. . . . . . . . . . . . . . . . . . . . . . Station #1

12:45–1:15 PM
Education Exhibits
2018 New Trends! Axillary Ultrasound
BR187-ED-MOB12. . . . . . . . . . . . . . . . . . . . . . Station #12

TUESDAY, NOV 27, 2018
12:15–12:45 PM
Scientific Posters
Analysis of Background Echotexture on Automated Breast Ultrasound: Correlation with Mammographic Density
BR246-SD-TUA6. . . . . . . . . . . . . . . . . . . . . . Station #6

The B-Mode Image-Guided Ultrasound Attenuation Parameter Accurately Detects Hepatic Steatosis in Chronic Liver Disease
GI358-SD-TUA4 . . . . . . . . . . . . . . . . . . . . . Station #4

12:45–1:15 PM
Scientific Posters
Comparison of Automated Breast Ultrasound (ABUS) QVCAD Standalone Performance on Somo-v and Invenia Cases
BR253-SD-TUB7. . . . . . . . . . . . . . . . . . . . . . Station #7

Quantitative Assessment of Skin Stiffness Using Ultrasound Shear Wave Elastography in Systemic Sclerosis
MK378-SD-TUB2 . . . . . . . . . . . . . . . . . . . . . Station #2

12:45–1:15 PM
Education Exhibits
Radiofrequency Ablation for Thyroid Nodules: Current Evidences and Future Perspectives
VI164-ED-TUB9. . . . . . . . . . . . . . . . . . . . . . Station #9
WEDNESDAY, NOV 28, 2018

12:15–12:45 PM
Education Exhibits
Inserting Colors into the Diagnosis: When Doppler Makes the Difference in Breast Ultrasound
BR203-ED-WEA12 . . . . . . . . . . . . . . . . . . . . . Station #12

12:45–1:15 PM
Scientific Posters
Ductal Carcinoma in Situ Detected on Ultrasound Only Showed More Favorable Features Than Ductal Carcinoma in Situ Detected on Mammography in Asymptomatic Women with Dense Breasts
BR262-SD-WEB2 . . . . . . . . . . . . . . . . . . . . . Station #2

High-Frequency Ultrasound Evaluation of the Nail and Terminal Extensor Tendon in Psoriasis
MK391-SD-WEB2 . . . . . . . . . . . . . . . . . . . . . Station #2

Transvaginal Ultrasonography with Bowel Prepare is a Useful Tool for Predicting the Surgical Staging of Endometriosis
GU245-SD-WEB6 . . . . . . . . . . . . . . . . . . . . . Station #6

Utility of Targeted Ultrasound for the Evaluation of Palpable Breast Symptoms in Breastfeeding Women
BR261-SD-WEB1 . . . . . . . . . . . . . . . . . . . . . . Station #1

THURSDAY, NOV 29, 2018

12:15–12:45 PM
Scientific Posters
Comparison of Novel Wireless Ultrasound Transducers to Existing Diagnostic Ultrasound Machines Using the ATS Model 539 Multipurpose Phantom
GI383-SD-THA2 . . . . . . . . . . . . . . . . . . . . . Station #2

12:15–12:45 PM
Education Exhibits
Non-mass Findings on Breast Ultrasound (US): Detection, Differential, Diagnosis
BR215-ED-THA11 . . . . . . . . . . . . . . . . . . . . . Station #11

12:45–1:15 PM
Education Exhibits
Superficial Breast Lesions That We Need to Know
BR216-ED-THB6 . . . . . . . . . . . . . . . . . . . . . Station #6

What Radiologists Should Know to Avoid Mistakes in Screening Breast US
BR007-EB-THB . . . . . . . . . . . . . . . . . . . . . . Hardcopy Backboard
## Education Exhibits

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<td>VI115-ED-X</td>
<td>Reflections of the Heart: Spectral Doppler Abnormalities Indicative of Occult Cardiovascular Disease</td>
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<td>VI119-ED-X</td>
<td>Surfing the Waveform: A Tutorial for Vascular Waveform Analysis from A to Z</td>
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<td>VI131-ED-X</td>
<td>The Emerging Role of Contrast-Enhanced Ultrasound in Oncological Intervention</td>
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