

BREAST (IMAGING AND INTERVENTIONAL)

**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

Breast Sunday Case of the Day

Session ED001-SU Case of Day, Learning Center

10:15–11:25 AM

Vendor Workshops

Automated Breast Volume Scanner (ABVS) Physician Training

Workshop: An Interactive Learning Experience: Siemens

Healthineers Vendor Workshop

Session VW23 Booth 5530

10:30 AM–5:00 PM

Vendor Workshops

Wide-angle Digital Breast Tomosynthesis and Contrast

Enhanced Mammography Self-guided Reading Sessions:

Siemens Healthineers Vendor Workshop

Session VW21 Booth 5530

Automated Breast Volume Scanner (ABVS) Self-guided

Reading Sessions: Siemens Healthineers Vendor Workshop

Session VW22 Booth 5530

10:30–11:30 AM

Vendor Workshops

Tomosynthesis Guided Prone Breast Biopsy Solutions: Hologic

Vendor Workshop

Session VW51 Booth 5524

10:45 AM–12:15 PM

Scientific Papers Sessions

Breast Imaging (Update on Screening)

Session SSA01 E450A

Breast Imaging (Contrast Enhanced Spectral Mammography)

Session SSA02 E450B

11:40 AM–12:50 PM

Vendor Workshops

Wide-angle Digital Breast Tomosynthesis and Contrast

Enhanced Mammography Reading Sessions: Siemens

Healthineers Vendor Workshop

Session VW24 Booth 5530

12:00–12:30 PM**Vendor Workshops**

Triaging Dense Breast Patients in Clinical Practice: Hologic
Vendor Workshop

Session VW52 **Booth 5524**

12:30–1:00 PM**Posters and Exhibits: Discussions**

Breast Sunday Poster Discussions

Session BRS-SUA **BR Community, Learning Center**

12:30–1:00 PM**Vendor Workshops**

Comparison between ABUS and Hand-Held Breast
Ultrasound in the Screening of Dense Breasts: GE Vendor
Workshop

Session VW01 **Booth 8156**

1:00–1:30 PM**Posters and Exhibits: Discussions**

Breast Sunday Poster Discussions

Session BRS-SUB **BR Community, Learning Center**

1:00–2:00 PM**Vendor Workshops**

A Clinical Perspective on Increasing Confidence with
Synthesized 2D Imaging Technology: Hologic Vendor
Workshop

Session VW53 **Booth 5524**

1:05–2:15 PM**Vendor Workshops**

Automated Breast Volume Scanner (ABVS) Physician Training
Workshop: An Interactive Learning Experience: Siemens
Healthineers Vendor Workshop

Session VW25 **Booth 5530**

1:30–2:00 PM**Vendor Workshops**

Breast Density and Improved Risk Assessment: GE Vendor
Workshop

Session VW02 **Booth 8156**

2:00–3:30 PM**Educational Courses**

Screening for Breast Cancer

Course RC115 **E353C**

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

Course RC124 **E353A**

MR Imaging-guided Breast Biopsy (Hands-on)

Course RC150 **E260**

2:30–3:00 PM

Vendor Workshops

Automated Breast Ultrasound (ABUS) Technology Update: GE Vendor Workshop

Session VW03 **Booth 8156**

Advancements in Real-time Breast Specimen Imaging: Hologic Vendor Workshop

Session VW54 **Booth 5524**

2:30–3:40 PM

Vendor Workshops

AI-based Mammography Reading (Hands-on session):

Siemens Healthineers Vendor Workshop

Session VW26 **Booth 5530**

3:00–3:30 PM

Vendor Workshops

Automated Breast Ultrasound (ABUS) Technology Update: GE Vendor Workshop

Session VW04 **Booth 8156**

3:30–4:00 PM

Vendor Workshops

Breast Density Assessment: Beyond Radiologist Visual

Assessment: Hologic Vendor Workshop

Session VW55 **Booth 5524**

3:50–5:00 PM

Vendor Workshops

A Practical Approach to Breast Magnetic Resonance Imaging

(MRI) Interpretation: An Interactive Session: Siemens

Healthineers Vendor Workshop

Session VW27 **Booth 5530**

4:00–5:45 PM

Plenary Sessions

Sunday Afternoon Plenary Session

Session PS12 **Arie Crown Theater**

4:00–4:25 PM

Vendor Workshops

Patients Respond Positively to Supplemental Screening with

ABUS and Report an Added Sense of Security: GE Vendor

Workshop

Session VW05 **Booth 8156**

4:30–5:00 PM**Vendor Workshops**

Hearing from the Voices That Matter: The Patients: GE Vendor Workshop

Session VW06. Booth 8156

True Patient Comfort: Genius™ 3D Mammography™ Exam and SmartCurve™ Breast Stabilization System (In Spanish): Hologic Vendor Workshop

Session VW56. Booth 5524

MONDAY, NOV 26, 2018**Case of the Day**

Breast Monday Case of the Day

Session ED001-MO Case of Day, Learning Center

7:15–8:15 AM**Educational Courses**

Controversy Session: Screening Breast MRI: Abbreviated versus Full Protocol

Session SPSC20. E350

8:30–9:30 AM**Corporate Symposium**

Contrast Enhanced Mammography: Incorporating CEM Into Your Clinical Practice: Presented by Hologic, Inc.

Session CS22 S102AB

8:30–10:00 AM**Educational Courses**

BOOST: Breast-Oncology Anatomy (Interactive Session)

Course MSR025 S103CD

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

Course RC221 S102CD

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

Breast Series: Hot Topics (Supported by an Unrestricted Educational Grant from Hologic)

Course RC215 Arie Crown Theater

10:15–11:25 AM**Vendor Workshops**

A Practical Approach to Breast Magnetic Resonance Imaging (MRI) Interpretation: An Interactive Session: Siemens Healthineers Vendor Workshop

Session VW30. Booth 5530

10:30 AM–5:00 PM

Vendor Workshops

Wide-angle Digital Breast Tomosynthesis and Contrast Enhanced Mammography Self-guided Reading Sessions: Siemens Healthineers Vendor Workshop

Session VW28 **Booth 5530**

Automated Breast Volume Scanner (ABVS) Self-guided Reading Sessions: Siemens Healthineers Vendor Workshop

Session VW29 **Booth 5530**

11:40 AM–12:50 PM

Vendor Workshops

Automated Breast Volume Scanner (ABVS) Physician Training Workshop: An Interactive Learning Experience: Siemens Healthineers Vendor Workshop

Session VW31 **Booth 5530**

12:00–1:00 PM

Vendor Workshops

Improving Tomosynthesis Read-times, While Maintaining Clinical Performance: Hologic Vendor Workshop

Session VW58 **Booth 5524**

12:15–12:45 PM

Posters and Exhibits: Discussions

Breast Monday Poster Discussions

Session BRS-MOA **BR Community, Learning Center**

12:30–1:00 PM

Vendor Workshops

Application of ABUS in Diagnosis of Breast Cancer: A Multi-Center Study in China: GE Vendor Workshop

Session VW07 **Booth 8156**

12:45–1:15 PM

Posters and Exhibits: Discussions

Breast Monday Poster Discussions

Session BRS-MOB **BR Community, Learning Center**

1:05–2:15 PM

Vendor Workshops

Wide-angle Digital Breast Tomosynthesis Reading Session: Siemens Healthineers Vendor Workshop

Session VW32 **Booth 5530**

1:30–2:30 PM

Scientific Papers Sessions

BOOST: Breast-Science Session with Keynote

Session MSRO27 **S103CD**

1:30–2:30 PM**Vendor Workshops**

Global Perspectives on Risk-based Screening: Panel

Discussion: GE Vendor Workshop

Session VW08 **Booth 8156**

Tomosynthesis Guided Prone Breast Biopsy Solutions: Hologic Vendor Workshop

Session VW59 **Booth 5524****2:30–3:40 PM****Vendor Workshops**

Automated Breast Volume Scanner (ABVS) Physician Training Workshop: An Interactive Learning Experience: Siemens

Healthineers Vendor Workshop

Session VW33 **Booth 5530****3:00–4:15 PM****Educational Courses**

BOOST: Breast-Case-based Multidisciplinary Review (Interactive Session)

Course MSR028 **S103CD****3:00–4:00 PM****Scientific Papers Sessions**

Breast Imaging (Breast Density and Risk Assessment)

Session SSE01 **E451B**

Breast Imaging (Patient-Centric Care)

Session SSE02 **E450B**

Physics (Breast X-Ray Imaging)

Session SSE23 **S502AB****3:00–3:30 PM****Vendor Workshops**

Automated Breast Ultrasound (ABUS) Technology Update: GE Vendor Workshop

Session VW09 **Booth 8156****3:00–4:00 PM****Vendor Workshops**

The Clinical Benefits of Tomosynthesis Guided Breast Biopsy: Hologic Vendor Workshop

Session VW60 **Booth 5524****3:50–5:00 PM****Vendor Workshops**

Wide-angle Digital Breast Tomosynthesis and Contrast Enhanced Mammography Reading Sessions: Siemens Healthineers Vendor Workshop

Session VW34 **Booth 5530**

4:00–5:00 PM**Vendor Workshops**

3D ABUS: Hands-on Workshop: GE Vendor Workshop

Session VW10 Booth 8156**4:30–5:00 PM****Vendor Workshops**

Advancements in Real-time Breast Specimen Imaging: Hologic Vendor Workshop

Session VW61 Booth 5524**TUESDAY, NOV 27, 2018****Case of the Day**

Breast Tuesday Case of the Day

Session ED001-TU Case of Day, Learning Center**7:15–8:15 AM****Educational Courses**

Hot Topic Session: Management of DCIS and Minimal Risk Lesions

Session SPSH30 E450B**8:30 AM–12:00 PM****Educational Courses**

Breast Series: MRI

Course RC315 Arie Crown Theater**8:30–10:00 AM****Educational Courses**

Role of MR Imaging in Cancer Staging and Treatment

Course RC320 S403B**10:15–11:25 AM****Vendor Workshops**

Wide-angle Digital Breast Tomosynthesis Reading Session: Siemens Healthineers Vendor Workshop

Session VW37 Booth 5530**10:30 AM–12:00 PM****Scientific Papers Sessions**

Breast Imaging (Ultrasound Screening and Diagnostic Indications)

Session SSG01 S406A**10:30 AM–5:00 PM****Vendor Workshops**

Wide-angle Digital Breast Tomosynthesis and Contrast Enhanced Mammography Self-guided Reading Sessions: Siemens Healthineers Vendor Workshop

Session VW35 Booth 5530

Automated Breast Volume Scanner (ABVS) Self-guided
Reading Sessions: Siemens Healthineers Vendor Workshop
Session VW36 **Booth 5530**

10:30–11:30 AM

Vendor Workshops

Tomosynthesis Guided Prone Breast Biopsy Solutions in a
Community Based Practice: Hologic Vendor Workshop
Session VW62 **Booth 5524**

11:40 AM–12:50 PM

Vendor Workshops

A Practical Approach to Breast Magnetic Resonance Imaging
(MRI) Interpretation: An Interactive Session: Siemens
Healthineers Vendor Workshop
Session VW38 **Booth 5530**

12:00–12:30 PM

Vendor Workshops

Triaging Dense Breast Patients in Clinical Practice: Hologic
Vendor Workshop
Session VW63 **Booth 5524**

12:15–12:45 PM

Posters and Exhibits: Discussions

Breast Tuesday Poster Discussions
Session BRS-TUA **BR Community, Learning Center**

12:30–1:30 PM

Lunch and Learns

Lunch and Learn: The Future of Women's Breast Health:
Breakthrough Technologies in Breast Imaging, Patient
Experience and Clinical Research: Presented by
Mammosphere (invite-only)
Session LL21 **S404AB**

Lunch and Learn: Real-World Deployment of Deep Learning
for Breast Cancer Screening: Presented by Kheiron Medical
Technologies (invite-only)
Session LL23 **S403B**

12:30–1:30 PM

Vendor Workshops

3D ABUS: Hands-on Workshop: GE Vendor Workshop
Session VW11 **Booth 8156**

12:45–1:15 PM

Posters and Exhibits: Discussions

Breast Tuesday Poster Discussions
Session BRS-TUB **BR Community, Learning Center**

1:00–2:00 PM

Vendor Workshops

Hologic's Biopsy Solutions Portfolio - A Clinical Perspective:
Hologic Vendor Workshop

Session VW64 **Booth 5524**

1:05–2:15 PM

Vendor Workshops

Automated Breast Volume Scanner (ABVS) Physician Training
Workshop: An Interactive Learning Experience: Siemens
Healthineers Vendor Workshop

Session VW39 **Booth 5530**

1:30–1:50 PM

Showcase Presentations

Machine Learning Theater: How AI Can Improve Diagnostic
Performance and Reduce Reading Time in Breast
Tomosynthesis: Presented by iCAD

Session ML36 . . . **Machine Learning Showcase North Hall**

2:00–2:30 PM

Vendor Workshops

Are We Ready For Automated Breast Ultrasound (ABUS)
Coronal View?: GE Vendor Workshop

Session VW12 **Booth 8156**

2:30–3:40 PM

Vendor Workshops

AI-based Mammography Reading: Hands-on session: Siemens
Healthineers Vendor Workshop

Session VW40 **Booth 5530**

2:30–3:30 PM

Vendor Workshops

Improving Tomosynthesis Read-times, While Maintaining
Clinical Performance: Hologic Vendor Workshop

Session VW65 **Booth 5524**

3:00–4:00 PM

Scientific Papers Sessions

Breast Imaging (Monitoring Response to Treatment)

Session SSJ01 **E450A**

Breast Imaging (US Advanced Applications)

Session SSJ02 **E353C**

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

Session SSJ17 **S504CD**

3:00–3:30 PM**Vendor Workshops**

Automated Breast Ultrasound (ABUS) Technology Update: GE
Vendor Workshop

Session VW13 Booth 8156

3:30–4:00 PM**Vendor Workshops**

Automated Breast Ultrasound (ABUS) Technology Update: GE
Vendor Workshop

Session VW14 Booth 8156

3:50–5:00 PM**Vendor Workshops**

Automated Breast Volume Scanner (ABVS) Physician Training
Workshop: An Interactive Learning Experience: Siemens
Healthineers Vendor Workshop

Session VW41 Booth 5530

4:00–4:30 PM**Vendor Workshops**

Breast Density Assessment: Beyond Radiologist Visual
Assessment: Hologic Vendor Workshop

Session VW66 Booth 5524

4:30–6:00 PM**Educational Courses**

The Neoadjuvant Patient

Course RC415 E353B

WEDNESDAY, NOV 28, 2018**Case of the Day**

Breast Wednesday Case of the Day

Session ED001-WE Case of Day, Learning Center

8:30–10:00 AM**Educational Courses**

BI-RADS Interactive Challenge (Interactive Game)

Course RC515 N227B

10:15–11:25 AM**Vendor Workshops**

Wide-angle Digital Breast Tomosynthesis and Contrast
Enhanced Mammography Reading Sessions: Siemens
Healthineers Vendor Workshop

Session VW44 Booth 5530

10:30–12:00 PM

Scientific Papers Sessions

Breast Imaging (Digital Breast Tomosynthesis: Screening and Diagnostic Indications)

Session SSK01 **E451A**

Breast Imaging (Artificial Intelligence)

Session SSK02 **E451B**

10:30–5:00 PM

Vendor Workshops

Wide-angle Digital Breast Tomosynthesis and Contrast

Enhanced Mammography Self-guided Reading Sessions:

Siemens Healthineers Vendor Workshop

Session VW42 **Booth 5530**

Automated Breast Volume Scanner (ABVS) Self-guided

Reading Sessions: Siemens Healthineers Vendor Workshop

Session VW43 **Booth 5530**

10:30–11:30 AM

Vendor Workshops

Integrating Contrast Enhanced 2D Imaging into Your Practice to Optimize Patient Care: Hologic Vendor Workshop

Session VW67 **Booth 5524**

11:30–11:50 AM

Showcase Presentations

Machine Learning Theater: AI-driven Mammography: Applying the Right Filter: Presented by Densitas, Inc.

Session ML42 . . . **Machine Learning Showcase North Hall**

11:40 AM–12:50 PM

Vendor Workshops

Automated Breast Volume Scanner (ABVS) Physician Training Workshop: An Interactive Learning Experience: Siemens

Healthineers Vendor Workshop

Session VW45 **Booth 5530**

12:00–1:00 PM

Vendor Workshops

A Clinical Perspective on Increasing Confidence with

Synthesized 2D Imaging Technology: Hologic Vendor Workshop

Session VW68 **Booth 5524**

12:15–12:45 PM

Posters and Exhibits: Discussions

Breast Wednesday Poster Discussions

Session BRS-WEA **BR Community, Learning Center**

12:45–1:15 PM

Posters and Exhibits: Discussions

Breast Wednesday Poster Discussions

Session BRS-WEB. BR Community, Learning Center

1:00–2:00 PM

Educational Courses

ASRT@RSNA 2018: Hindsight is 20/20 - The Earliest
Appearance of Breast Cancer

Course MSRT44 N230B

1:05–2:15 PM

Vendor Workshops

Wide-angle Digital Breast Tomosynthesis Reading Session:
Siemens Healthineers Vendor Workshop

Session VW46. Booth 5530

1:30–2:30 PM

Vendor Workshops

3D ABUS: Hands-on Workshop: GE Vendor Workshop

Session VW15 Booth 8156

Tomosynthesis Guided Prone Breast Biopsy Solutions in a
Community Based Practice: Hologic Vendor Workshop

Session VW69. Booth 5524

2:30–3:40 PM

Vendor Workshops

A Practical Approach to Breast Magnetic Resonance Imaging
(MRI) Interpretation: An Interactive Session: Siemens
Healthineers Vendor Workshop

Session VW47. Booth 5530

3:00–4:00 PM

Scientific Papers Sessions

Breast Imaging (Interventional Techniques and Path
Correlation)

Session SSM01 E351

Science Session with Keynote: Breast Imaging (Risk-Based
Screening: Should We Do It?)

Session SSM02. E350

3:00–3:30 PM

Vendor Workshops

Automated Breast Ultrasound (ABUS) Technology Update: GE
Vendor Workshop

Session VW16 Booth 8156

3:00–4:00 PM**Vendor Workshops**

True Patient Comfort: Genius™ 3D Mammography™ exam and SmartCurve™ Breast Stabilization System: Hologic Vendor Workshop

Session VW70 **Booth 5524**

3:30–4:00 PM**Vendor Workshops**

Automated Breast Ultrasound (ABUS) Technology Update: GE Vendor Workshop

Session VW17 **Booth 8156**

3:50–5:00 PM**Vendor Workshops**

Automated Breast Volume Scanner (ABVS) Physician Training Workshop: An Interactive Learning Experience: Siemens Healthineers Vendor Workshop

Session VW48 **Booth 5530**

THURSDAY, NOV 29, 2018**Case of the Day**

Breast Thursday Case of the Day

Session ED001-TH **Case of Day, Learning Center**

8:30–10:00 AM**Educational Courses**

Essentials of Breast Imaging

Course MSES51 **S406B**

Advanced Breast Imaging Technologies

Course RC615 **E451A**

9:15–10:15 AM**Educational Courses**

ASRT@RSNA 2018: The Missed Breast Cancer - Causes and Cures

Course MSRT52 **N230B**

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

Breast Imaging (Abbreviated MRI, Ultrafast Imaging and Artificial Intelligence)

Session SSQ01 **E450A**

10:30–11:00 AM**Vendor Workshops**

Automated Breast Ultrasound (ABUS) Technology Update: GE Vendor Workshop

Session VW18 **Booth 8156**

10:30 AM–5:00 PM**Vendor Workshops**

Wide-angle Digital Breast Tomosynthesis and Contrast
Enhanced Mammography Self-guided Reading Sessions:
Siemens Healthineers Vendor Workshop

Session VW49 **Booth 5530**

Automated Breast Volume Scanner (ABVS) Self-guided
Reading Sessions: Siemens Healthineers Vendor Workshop

Session VW50 **Booth 5530**

11:00–11:30 AM**Vendor Workshops**

Automated Breast Ultrasound (ABUS) Technology Update: GE
Vendor Workshop

Session VW19 **Booth 8156**

11:30 AM–12:00 PM**Vendor Workshops**

Automated Breast Ultrasound (ABUS) Technology Update: GE
Vendor Workshop

Session VW20 **Booth 8156**

12:00–12:20 PM**Showcase Presentations**

Machine Learning Theater: State-of-the-art Deep Learning for
Breast Cancer Screening: Presented by Kheiron Medical
Technologies

Session ML53 . . . **Machine Learning Showcase North Hall**

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

Breast Thursday Poster Discussions

Session BRS-THA **BR Community, Learning Center**

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

Breast Thursday Poster Discussions

Session BRS-THB **BR Community, Learning Center**

1:30–3:00 PM**Educational Courses**

Case-based Review of Breast (Interactive Session)

Course MSCB51 **N228**

3:30–5:00 PM**Educational Courses**

Case-based Review of Breast (Interactive Session)

Course MSCB52 **N228**

4:30–6:00 PM

Educational Courses

Tomosynthesis

Course RC715 **E353C**

MR Imaging-guided Breast Biopsy (Hands-on)

Course RC750 **E260**

US-guided Interventional Breast Procedures (Hands-on)

Course RC752 **E264**

FRIDAY, NOV 30, 2018

8:30–10:00 AM

Educational Courses

Radiologist's Value in the Multidisciplinary Team

Course RC815 **E350**

Breast Elastography (Hands-on)

Course RC852 **E264**

10:30 AM–12:00 PM

Scientific Papers Sessions

Breast Imaging (Multimodality Breast Imaging)

Session SST01 **E353B**

12:30–3:00 PM

Educational Courses

Friday Imaging Symposium: Screening with Imaging in 2018:
Who Benefits?

Session SPFR61 **E350**

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

Accuracy of the Nodal Staging in Breast Carcinoma Using
18F-FDG-PET/MRI, Comparison with Pathological Findings

BR221-SD-SUA2 **Station #2**

Automated Volumetric Breast Density Estimation: A
Comparison with Radiologists' Qualitative Classification

BR222-SD-SUA3 **Station #3**

Breast Density Classification and Follow-Up Decision Support System Using Deep Convolutional Models

BR220-SD-SUA1 **Station #1**

The Many Faces of Contrast Enhancing Benign Breast Lesions in Digital Mammography

BR223-SD-SUA4 **Station #4**

12:30–1:00 PM

Education Exhibits

Beware of the Rare: A Pictorial Review of Unusual Breast Lesions

BR013-EB-SUA **Hardcopy Backboard**

Comparison of DCIS and Invasive Ductal Carcinoma on Digital 2D versus Synthesized 2D Mammography

BR169-ED-SUA9 **Station #9**

Hematopoietic and Connective Tissue Diseases of the Breast

BR165-ED-SUA5 **Station #5**

Inflammatory Processes of the Breast a Pictorial Review

BR167-ED-SUA7 **Station #7**

Ouch, That Hurts! Breast Trauma: What the Radiologist Needs to Know

BR166-ED-SUA6 **Station #6**

Round Malignancies: A Pictorial Review with Radiologic-Pathologic Correlation

BR204-ED-SUA10 **Station #10**

Testing the Waters: Multimodality Imaging Evaluation of Peri-Implant Effusions

BR168-ED-SUA8 **Station #8**

Where is the Lesion? Mammographic-Sonographic and Breast MR Imaging Correlation

BR008-EB-SUA **Hardcopy Backboard**

1:00–1:30 PM

Scientific Posters

Breast Imaging (Contrast Enhanced Spectral Mammography)

BR227-SD-SUB4 **Station #4**

Does Tomosynthesis Work For Everyone?

BR228-SD-SUB5 **Station #5**

Evaluation of Gd-Deposits in Healthy Women Participating in High Risk Screening Program for Early Breast Cancer Detection

BR224-SD-SUB1 **Station #1**

Patient, Provider, and Facility Characteristics Associated with Observed Variations in Breast Cancer Screening Outcomes: Findings from A Learning Health System

BR226-SD-SUB3 **Station #3**

Radiomics Analysis with Contrast-Enhanced Dual-Energy Mammography for the Differentiation of Hormone Receptor Status and Tumor Invasiveness in Breast Cancer Patients

BR225-SD-SUB2 Station #2

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

Breast Implants for Residents Test Your Knowledge in Common and Uncommon Findings

BR171-ED-SUB67 Station #7

Imaging Findings Following Image Guided Cryoablation Of Breast Cancer: A New Normal

BR175-ED-SUB11 Station #10

Imaging of Free Liquid Silicone Injections in the Transgender Breast

BR170-ED-SUB6 Station #6

Law and Order: Staying aBREAST of Medicolegal Issues in Mammography

BR172-ED-SUB8 Station #8

New Findings on Breast MRI with Benign or Probably Benign Characteristics: Evaluation, Differential, and Management Dilemmas

BR174-ED-SUB10 Station #10

MONDAY, NOV 26, 2018

12:15–12:45 PM

Scientific Posters

Breast Cancer Risk Assessment at the Time of Screening Mammography: Pathology and BIRADS Outcomes

BR234-SD-MOA6 Station #6

Clinical Impact of Second Opinion Radiology Consultation for Patients with Breast Cancer

BR231-SD-MOA3 Station #3

Impact of Inflammatory Breast Cancer Heterogeneity for Predicting Survival: Low-Dose Breast CT Texture Analysis

BR230-SD-MOA2 Station #2

Prediction of 21-Gene Recurrence Score in Patients with Estrogen Receptor-positive Early-Stage Breast Cancer Using MRI-based Radiomics Nomogram

BR232-SD-MOA4 Station #4

Ultrasound Radiomics in the Differentiation Between Benign and Malignant Breast Masses: Comparison Between Conventional Ultrasonography and Shear-Wave Elastography
BR229-SD-MOA1 Station #1

Volumetric versus Area-based Breast Density Assessment: Comparisons using Fully-Automated Quantitative Measurements in a Large Screening Population
BR233-SD-MOA5 Station #5

12:15–12:45 PM

Education Exhibits

Breast Imaging STAT: A Pictorial Review of Acute Pathology
BR179-ED-MOA10 Station #10

Contrast-Enhanced Mammography: Current Applications and Future Direction
BR176-ED-MOA7 Station #7

Factors Affecting MRI Accuracy in Evaluating of Neoadjuvant Therapy Response in Breast Cancer: A Pictorial Review with Radiopathological Correlation
BR177-ED-MOA8 Station #8

Pitfalls, Tricks, and Tips in the Sonographic Evaluation of Breast. What the Radiology Residents Need to Know?
BR178-ED-MOA9 Station #9

Primary Breast Tuberculosis: Imaging Findings
BR180-ED-MOA11 Station #11

Probably Benign Assessment on Breast MRI: Appropriate and Inappropriate Utilization
BR181-ED-MOA12 Station #12

12:45–1:15 PM

Scientific Posters

Breast Cancer and Breast Imaging Malpractice Litigation: A 10-Year Analysis and Update in Trends
BR239-SD-MOB5 Station #5

Determining the Appropriateness of Second Look Targeted Sonography Recommendation Following Detection of Suspicious Non-Mass Enhancement (NME) Detected on Breast Magnetic Resonance Imaging (MRI)
BR237-SD-MOB3 Station #3

Does the Tumor Stiffness of Shear Wave Elastography Correlate with Tumor Hypoxia or Fibrosis of Breast Cancer?
BR235-SD-MOB1 Station #1

Measurement of Breast Density Using Bioimpedance
BR240-SD-MOB6 Station #6

Prediction of Neoadjuvant Chemotherapy Response using Radiogenomics of MR Imaging in Breast Cancer: Correlation of Quantitative and Qualitative MR findings with Results of Multi-Gene Classifier

BR238-SD-MOB4 Station #4

Therapeutic Nipple Sparing Mastectomy (NSM): Tumor-To-Nipple Distance (TND) on Preoperative MRI as Useful Variable in Surgical Patient Selection and Outcomes

BR236-SD-MOB2 Station #2

12:45–1:15 PM

Education Exhibits

2018 New Trends! Axillary Ultrasound

BR187-ED-MOB12 Station #12

Advances in Radiology Education: Development of Subspecialty Specific Entrustable Professional Activities Using a Double Delphi Technique

BR182-ED-MOB7. Station #7

Don't Forget the Breast: Incidental Breast Findings on CT

BR184-ED-MOB9 Station #9

Increased Unnaturally? What Lies Beneath Markedly Enlarged Breast

BR186-ED-MOB11 Station #11

Two Faces Breast Cancer: Shooting the Enemy More Than One Time with Biopsy Gun to Unmask It

BR183-ED-MOB8 Station #8

You Sow What You Reap: Tumoral Needle Tract Seeding After Percutaneous Breast Biopsy

BR185-ED-MOB10. Station #10

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

Evaluating the Timeliness of Abnormal Mammography Follow-up Based on Race at an Urban Safety Net Hospital

BR241-SD-TUA1 Station #1

Histological Whole-Slide Imaging for Invasive Breast Cancer: A Novel Technique to Obtain Quantitative Parameters Correlating with the Apparent Diffusion Coefficient

BR244-SD-TUA4 Station #4

Outcome Analysis of BI-RADS Category 3 Lesions in Young Women Imaged in Tertiary University Versus Safety-Net Hospital Setting: Is There an Impact of Healthcare Disparity?

BR242-SD-TUA2. Station #2

Pre-Treatment Prediction of Pathologic Complete Response to Neoadjuvant Chemotherapy in Node-Positive Breast Cancer Patients: A Breast MRI Radiomics Pilot Study

BR243-SD-TUA3. Station #3

Usefulness of CAD (Computer-Aided Detection) System for Screening Automatic Breast Ultrasound

BR245-SD-TUA5. Station #5

12:15–12:45 PM

Education Exhibits

Breast Imaging of Ductal Carcinoma in Situ: Dilemma Between Overtreatment and Underestimation

BR190-ED-TUA9. Station #9

Luminal B Subtype Breast Cancer: Radiogenomic Correlation

BR198-ED-TUA12. Station #12

Missed Breast Cancers: The Unconscious Bias in Breast Imaging

BR188-ED-TUA7. Station #7

Not Your Mother's Breast Cancer — Imaging and Review of Breast Cancer Under 30 and Other Mimics

BR191-ED-TUA10. Station #10

Perceptive and Interpretive Pitfalls at Digital Breast Tomosynthesis (DBT) – Lessons from Continued Clinical Practice

BR189-ED-TUA8. Station #8

Quantitative MRI Radiomics in Breast Cancer: Tumor Perfusion and Heterogeneity

BR009-EB-TUA. Hardcopy Backboard

The Bright Side of the Post-Surgical Breast: Benign Findings After Breast Manipulation

BR192-ED-TUA11. Station #11

12:45–1:15 PM

Scientific Posters

Changes in the Utilization of the BI-RADS Category 3 Assessment in Recalled Patients Screened with Digital Mammography Before and After the Implementation of Diagnostic Digital Breast Tomosynthesis

BR248-SD-TUB2. Station #2

Clinical Usefulness of Digital Breast Tomosynthesis (DBT) and Hybrid 18F-FDG PETMRI (PETMR) for Monitoring Neoadjuvant Chemotherapy (NAC) in Breast Cancer

BR247-SD-TUB1. Station #1

Comparison of Automated Breast Ultrasound (ABUS) QVCAD Standalone Performance on Somo-v and Invenia Cases

BR253-SD-TUB7. Station #7

Development and Validation of a Deep Learning Model For
More Accurate and Consistent Assessment of MRI
Background Parenchymal Enhancement

BR251-SD-TUB5 Station #5

Diagnosis of Triple Negative Breast Cancer Using Machine
Learning Methods of Quantitative Computerized Ultrasound
Features

BR252-SD-TUB6. Station #6

Longitudinal Investigation of Tumor Heterogeneity in Breast
DCE-MRI to Improve Early Response Assessment to
Neoadjuvant Chemotherapy for Locally Advanced Breast
Cancer: Results From the ACRIN 6657/I-SPY-1 Trial

BR250-SD-TUB4 Station #4

Management of Atypical Breast Papillomas by US-Guided
Vacuum-Assisted Removal: Long-Term Outcomes

BR249-SD-TUB3. Station #3

12:45–1:15 PM

Education Exhibits

Freezing Instead of Excising: Cryoablation for Early Stage
Breast Cancer

BR193-ED-TUB8 Station #8

Getting Acquainted with the Man(l)y Facets of the Lesser
Known Male Breast: Lessons Learned From a 10-year
Institutional Look-Back

BR194-ED-TUB9 Station #9

The 123's of Breast Cancer Staging

BR195-ED-TUB10 Station #10

The Dark Side of the Post-Surgical Breast: Recurrence in
Breast Cancer Follow-Up Care

BR197-ED-TUB12 Station #12

The Future Breast Imager: Understanding the Clinician's
Perspective

BR196-ED-TUB11. Station #11

WEDNESDAY, NOV 28, 2018

12:15–12:45 PM

Scientific Posters

Associations Between Magnetic Resonance Imaging (MRI)
Biomarkers and Tumor-Infiltrating Lymphocytes (TILs) in
Breast Cancer: Results from a Preliminary Study

BR254-SD-WEA1 Station #1

Cancer Detection Rate for Stereotactic Biopsies Performed on
Initially Categorized BI-RADS 3 Calcifications

BR257-SD-WEA4 Station #4

Convolutional Neural Network Based Breast Cancer Risk Stratification Using a Mammographic Dataset

BR259-SD-WEA6 Station #6

Patient and Tumor Characteristics to Predict the Benefit of Pre-Operative Breast MRI: Results from a Machine Learning Approach at a High Volume Academic Center

BR255-SD-WEA2 Station #2

Peritumoral Fat Content Correlates with Histologic Prognostic Factors in Breast Carcinoma: Iterative Decomposition of Water and Fat with Echo Asymmetry and Least-Squares Emission (IDEAL) Study

BR256-SD-WEA3 Station #3

Radiologists versus Deep Learning Model Inter-Observer Variability in Mammographic Breast Density Assessment

BR258-SD-WEA5 Station #5

The Significance of Asymmetries in Screening Mammograms with Digital Breast Tomosynthesis

BR260-SD-WEA7 Station #7

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

Multimodality Imaging of Lobular Neoplasia: Review of Imaging Features and Updates on Controversies in Management

BR202-ED-WEA11 Station #11

The Forgotten Male Breast: A Comprehensive Review of Male Breast Disease

BR199-ED-WEA8 Station #8

Unilateral Palpable Male Breast Lump: What Is Underneath!

BR201-ED-WEA10 Station #10

What the Breast Radiologist Needs to Know About Imaging Transgender Patients

BR200-ED-WEA9 Station #9

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

Is the Contrast Enhanced Mammography an Alternative to Magnetic Resonance Imaging for the Presurgical Evaluation of Tumor Response in Breast Cancer Patients Treated with Neoadjuvant Chemotherapy?

BR263-SD-WEB3 Station #3

Microcalcifications of Ductal Carcinoma in Situ of the Breast:
Correlation between Breast Imaging and Pathological and
Biological Features

BR264-SD-WEB4 Station #4

Multi-reader Multi-case Virtual Clinical Trial of Lesion
Detection in Digital Mammography and Digital Breast
Tomosynthesis

BR267-SD-WEB7. Station #7

Performance of Screening Breast MRI According to Different
Risk Categories

BR266-SD-WEB6 Station #6

Potential of Deep Learning and Conventional Radiomics in the
Task of Distinguishing Between Malignant and Benign Breast
Lesions in a Large Clinical MRI Dataset from China

BR265-SD-WEB5 Station #5

Utility of Targeted Ultrasound for the Evaluation of Palpable
Breast Symptoms in Breastfeeding Women

BR261-SD-WEB1 Station #1

12:45–1:15 PM

Education Exhibits

A Comprehensive Breast Cancer Risk Management Program
Developed in a Radiology Department to Share with Referring
Physicians

BR209-ED-WEB12 Station #12

A Wolf in Sheep's Clothing: Cancer Masquerading as a Benign-
appearing Breast Mass

BR206-ED-WEB9 Station #9

Anything but Binary: Exploring the Spectrum of Imaging
Concerns in the Transgender Patient

BR208-ED-WEB11. Station #11

Coming Out: Making Your Breast Imaging Center LGBT
Friendly

BR207-ED-WEB10. Station #10

Interval Breast Cancers in the Era of Precision Medicine: A
Multimodality Approach

BR205-ED-WEB8 Station #8

THURSDAY, NOV 29, 2018

12:15–12:45 PM

Scientific Posters

“Virtual” Full-Dose (VFD) Technology: Radiation Dose
Reduction in Digital Breast Tomosynthesis (DBT) by Means of
Neural Network Convolution (NNC) Deep Learning

BR275-SD-THA3. Station #3

Cognitive Bias in Screening Mammography

BR270-SD-THA4 Station #4

Comparison between Abbreviated Protocol (AB-MR) and Full Diagnostic Protocol (FD-MR) in the Characterization of Lesions Detected by Breast MRI: A Multi-reader Study

BR272-SD-THA6. Station #6

Imaging Features Associated with Pathological Complete Response in HER2 Positive Breast Cancer after Neoadjuvant Chemotherapy with Dual Blockade

BR271-SD-THA5. Station #5

Prediction of Axillary Response by Monitoring with Ultrasound and MRI During and After Neoadjuvant Chemotherapy in Breast Cancer Patients

BR268-SD-THA2 Station #2

12:15–12:45 PM

Education Exhibits

Easily Seen, Difficult Diagnosis: Spectrum of Lesions Involving the Nipple

BR211-ED-THA7 Station #7

Genetic Testing for Hereditary Breast and Ovarian Cancer: A Primer for Radiologists

BR210-ED-THA12 Station #12

Imaging Findings of Breast Implant Complications: What Has Changed with Latest-Generation Implants?

BR010-EB-THA. Hardcopy Backboard

Intraoperative Use of 3D Printed Breast Models in the Setting of Breast Cancer

BR214-ED-THA10 Station #10

Non-mass Findings on Breast Ultrasound (US): Detection, Differential, Diagnosis

BR215-ED-THA11 Station #11

Preoperative Freehand Breast MRI Needle/Hookwire Localization of Lesions in Hard to Reach Locations Where Grid Techniques Fail: Indications, Techniques, and Pitfalls

BR213-ED-THA9 Station #9

Systematic Approach to Lesions Involving Nipple-Areolar Complex Using MRI

BR212-ED-THA8 Station #8

12:45–1:15 PM

Scientific Posters

Comparative the Average Glandular Dose between Digital Breast Tomosynthesis (DBT) and Full-Field Digital Mammography (FFDM): Correlation with Breast Thickness and Density

BR276-SD-THB4. Station #4

Comparison Between Radiation Dose of 2D Digital versus Digital Tomosynthesis Guided Stereotactic Breast Biopsies: Tomosynthesis Wins!

BR269-SD-THB3. Station #3

Comparison of Results from Three Different Density Assessment Methods on Mammographic Density (MD) in Screening Patients Receiving Vitamin D (Vit D): Results of CALGB 70806 (Alliance)

BR274-SD-THB2 Station #2

Fate of a BI-RADS 3 Lesion: An Analysis of the Characteristics, Follow Up, Diagnostic Workup, and Cancer Rate of Probably Benign Lesions Seen at Breast MRI

BR277-SD-THB5 Station #5

Fully Automated Breast Lesion Segmentation on DCE-MRI Using a Convolutional Neural Network for Radiomic Analysis

BR273-SD-THB1 Station #1

12:45–1:15 PM

Education Exhibits

Contrast Enhanced Mammography: Where Does It Fail?

BR218-ED-THB8 Station #8

Contrast Enhanced Spectral Mammography (CESM). The "What, When and How" Guide to Using it in a Symptomatic Tertiary Referral Center

BR011-EB-THB Hardcopy Backboard

Mammographic Evaluation of Calcifications: Atlas for Residents

BR217-ED-THB7 Station #7

MRI Biopsy Radiology/Pathology Concordance: A Rapid Review of Common Pathologic Entities

BR219-ED-THB9 Station #9

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

SPACE NO.**EXHIBIT TITLE**

BR001-EB-X	Male Breast Disease: Pictorial Review of Multimodality Images
BR002-EB-X	Synthetic Mammography: Advantages, Disadvantages, Artifacts, and Pitfalls
BR003-EB-X	Is It Really a Simple Intramammary Lymph Node?
BR004-EB-X	Radiation Treatment Planning: What the Breast Imager Should Know
BR005-EB-X	Complex Cystic and Solid Breast Masses - What Should I Know?
BR006-EB-X	Malignant Breast Lesions: Can We Predict the Tumor Subtype?
BR012-EB-X	Incidental Extra-Mammary Findings on Breast MRI: A Pictorial Illustration
BR100-ED-X	Imaging of Lesions of Uncertain Malignant Potential on Core Biopsy
BR101-ED-X	BRCA Mash-Up: Pictorial Review of BRCA-Associated Breast Cancer Phenotypes
BR102-ED-X	Technique and Benefits for Same Day Dual-Energy Contrast-Enhanced Mammography and Breast Biopsy
BR103-ED-X	Breast Cancer Recurrence in the Post-Operative Breast: Catch Me If You Can!
BR104-ED-X	A Radiologist's Practical Guide to use of DWI during Breast MRI
BR105-ED-X	Multimodality Approach to the Nipple-Areolar Complex: A Pictorial Review and Diagnostic Algorithm
BR106-ED-X	Breast Asymmetry. What Does It Mean? What Should I Do?
BR107-ED-X	Tumor Biology and Imaging Manifestations: Can You Match the Imaging Findings to the Correct Tumor Type?
BR108-ED-X	Basic Concepts and Implications of Molecular Classification of Breast Cancer
BR109-ED-X	You Found What in My Breast?!

BR110-ED-X	Radioactive Seed Localization-Speed Bumps of Early Adoption: How to Pave the Way to Successful Use of Non-Wire Localizations
BR111-ED-X	Optimizing Mammographic Positioning: One Technologist at a Time
BR112-ED-X	Preparation of Digital Mammograms for the Application of Deep Learning Algorithms
BR113-ED-X	Embracing EQUIP in Our Daily Mammography Environment: Best Practices and Lessons Learned (The EQUIP Way or the Highway)
BR114-ED-X	Cone Beam CT: A Promising Approach to Non-Oncologic Imaging of the Surgically-Altered Breast
BR115-ED-X	Diagnostic Breast Imaging and Interventions in the Age of Digital Breast Tomosynthesis: How We Do It
BR116-ED-X	Breast Cancer in Younger Women: Screening and Diagnostic Imaging Examinations
BR117-ED-X	Breast Diseases Arising in Patient of Chronic Renal Failure or Kidney Transplantation: What Radiologists Should Know
BR118-ED-X	Encouraging Mammography Screening: Strategies for Designing a Culturally and Linguistically Targeted Breast Cancer Educational Program for a Multicultural Population
BR119-ED-X	How to Identify Women Who Are Above Average Risk for Developing Breast Cancer: Retrospective Review of our Institution's First Year Experience After Implementing a Breast Cancer Risk Assessment Program in Breast Imaging
BR120-ED-X	Diagnostic Imaging for Accelerated Partial Breast Irradiation
BR121-ED-X	Extent of Breast Cancer: Assessment with Sonography (US), Realtime Elastography (EG), and Magnetic Resonance Imaging (MRI)
BR122-ED-X	Male Breast Masses: A Multimodality Pictorial Review with Radiopathologic Correlation

- BR123-ED-X** Granulomas in the Breast: Do I Need to Worry?
- BR124-ED-X** MRI-Detected Breast Lesions: Comparison with Second-look US Using Real-time Virtual Sonography and Histopathological Findings
- BR125-ED-X** Tomosynthesis and Its Benefits in the Diagnosis of Architectural Distortions: A Way to Increase Our Diagnostic Capacity
- BR126-ED-X** A Multi-Modality, Case-Based Review of the 8th Edition AJCC Breast Cancer Staging and Prognosis Algorithm: The Why and How It Impacts Staging
- BR127-ED-X** Developing Asymmetry: Learning Algorithm
- BR128-ED-X** What Can It Be Except Gynecomastia?: Imaging Findings of the Common and Uncommon Causes of the Breast Lump in Male Patients
- BR129-ED-X** A Standardized Approach and Lexicon for Effective Reporting of Breast Cancer MRIs Pre and Post-Neoadjuvant Chemotherapy
- BR130-ED-X** Breast Cancer Screening in Transgender Patients
- BR131-ED-X** Contrast-Enhanced Spectral Mammography (CESM): Lessons Learned from Early Clinical Implementation
- BR132-ED-X** CESM as a Tool for Staging and Post-Neoadjuvant Chemotherapy Treatment Response
- BR133-ED-X** The Art of Diagnosing
- BR134-ED-X** Breast Cancer In Patients Under The Age Of Forty: Imaging, Assessment, and Management
- BR135-ED-X** Incidental FDG Uptake in the Breast: A "Hot" Topic
- BR136-ED-X** The Value of Adding Contrast Enhanced Spectral Mammography to the Diagnostic Breast Imaging Practice: How to Implement a Program and Examples of the Utility of CESM as a Problem Solving Tool
- BR137-ED-X** What Radiologists Should Know About Artifacts in Breast MRI

BR138-ED-X	Out with the Old... Let Go with the New BI-RADS MRI Guide for the Resident
BR139-ED-X	False Negative Breast Lesions - What They Can Teach
BR140-ED-X	Looking Beyond: Extramammary Findings in Breast MRI
BR141-ED-X	Breast Density Issues and Impacts on Mammography Screening
BR142-ED-X	The Role of Diffusion Weighted Mr Imaging in Breast Lesions
BR143-ED-X	Common and Uncommon Breast Lesions in Women Under 30: Clinical Presentation, Diagnosis, and Management
BR144-ED-X	The Medical Student Experience: From Diagnosis to Treatment of Breast Cancer Improving the Medical Student Rotation in the Breast Care Center
BR145-ED-X	Utilization of Molecular Breast Imaging in Women with Breast Foreign Bodies
BR146-ED-X	Breast Invaders: Atypical Infectious and Parasitic Breast Diseases
BR147-ED-X	Second Look Breast Ultrasound: A Practical Approach
BR148-ED-X	Pathologic Nipple Discharge: Evaluation, Management, and Imaging Findings
BR149-ED-X	Catch Me If You Know It: Common Image Quality Problems in 2D Versus 3D Mammography
BR150-ED-X	Architectural Distortion Revisited: Pearls and Pitfalls in the Detection of Architectural Distortion on Mammography and Spectrum of Pathologies
BR151-ED-X	Treatment of Breast Fibroadenoma with High Intensity Focused Ultrasound (HIFU)
BR152-ED-X	The Wire and Beyond: A Review of Recent Advances in Breast Imaging Pre-Operative Needle Localization Technology
BR153-ED-X	Inflammatory Breast Cancer: A Multimodality Approach
BR154-ED-X	Metastasis to the Breast: Where Do They Come From?
BR155-ED-X	Contrast Enhanced Spectral Mammography (CESM) - Principle, Protocol, Interpretation, and Challenge

BR156-ED-X	Breast Cancer MRI Staging: An Easy to Follow Algorithm
BR157-ED-X	MRI BI-RADS 3: When It Is and When It Is Not
BR158-ED-X	Male Breast: The Good, the Bad, and the Ugly
BR159-ED-X	MRI vs Pathology: Evaluation of Pathologic Complete Response of Breast Cancer Subtypes After Neoadjuvant Chemotherapy - Can We Avoid Breast Surgery in the Era of Personalized Medicine?
BR160-ED-X	Beyond Ducts and Lobules: Imaging of Non-Epithelial Tumors of the Breast
BR161-ED-X	Palpable Lesions of Breast: What the Radiologist Should Know
BR162-ED-X	Breast Implants: A Pictorial Review of Implant Complications
BR163-ED-X	Ready for BI-RADS Mammography Assessment Categories? Take a Quiz!
BR164-ED-X	Pseudoangiomatous Stromal Hyperplasia of the Breast: What the Pathology May Explain from Different Imaging Findings



Together, we are
**SEEDING THE FUTURE
OF RADIOLOGY**

For every \$1 granted by the R&E Foundation, 50 additional dollars in subsequent funding are awarded from other sources like the NIH.

We are responsible for the growth of radiology research and education. And we are growing strong.

Help seed the future of medical imaging.
Make a donation today.

RSNA.org/Foundation



RSNA[®]

Radiological Society
of North America

Looking for CME That Matters to You and Your Practice?

*Visit RSNA's Online Learning
Center for Essential Content
Covering Every Subspecialty*

- ▶ New series: Economics and Health Policy
- ▶ Cutting-edge AI Content
- ▶ Breast (Imaging and Interventional)
- ▶ Neuroradiology
- ▶ Musculoskeletal Radiology
- ▶ Gastrointestinal Radiology
- ▶ And more!

Most courses are free for members.



Visit [RSNA.org/Learning-Center](https://www.rsna.org/Learning-Center) today.

WHAT'S THE BIG IDEA? *YOU TELL US.*

.....

Be a Presenter at RSNA 2019!

- Scientific Presentations
- Applied Science
- Quality Improvement Reports
- Education Exhibits

EARN RECOGNITION

Kuo York Chynn Neuroradiology Research Award: \$3,000

The top scientific paper as selected by the Scientific Program Committee will earn this prestigious award.

The RSNA Trainee Research Prize: \$1,000

Up to 48 medical students, residents or fellows who submit expanded abstracts of their 2018 RSNA scientific presentation may receive a \$1,000 prize and certificate.

VISIT [RSNA.ORG/ABSTRACTS](https://www.rsna.org/abstracts) FOR COMPLETE GUIDELINES.

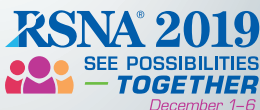
Submit Online

beginning January 2019 at [RSNA.org/Abstracts](https://www.rsna.org/abstracts) through Wednesday, April 10, 2019 NOON CT.

Questions?

Call 1-877-776-2227 (within U.S.)
or 1-630-590-7774 (outside U.S.)

Includes courses in joint sponsorship with the American Association of Physicists in Medicine.





3Dimensions™

- ✓ **MORE accuracy** compared to 2D alone¹⁻⁶
- ✓ **MORE comfort** for patients⁷
- ✓ **MORE details** at a lower dose*

Learn **MORE** at 3DimensionsSystem.com

¹ Compared to a T2DM + T2DM-simulated scan when using Intelligent (I²) mapping technology. ² T2DM-simulations P080001, P080002, P080003, P080004, P080005, P080006, P080007, P080008, P080009, P080010, P080011, P080012, P080013, P080014, P080015, P080016, P080017, P080018, P080019, P080020, P080021, P080022, P080023, P080024, P080025, P080026, P080027, P080028, P080029, P080030, P080031, P080032, P080033, P080034, P080035, P080036, P080037, P080038, P080039, P080040, P080041, P080042, P080043, P080044, P080045, P080046, P080047, P080048, P080049, P080050, P080051, P080052, P080053, P080054, P080055, P080056, P080057, P080058, P080059, P080060, P080061, P080062, P080063, P080064, P080065, P080066, P080067, P080068, P080069, P080070, P080071, P080072, P080073, P080074, P080075, P080076, P080077, P080078, P080079, P080080, P080081, P080082, P080083, P080084, P080085, P080086, P080087, P080088, P080089, P080090, P080091, P080092, P080093, P080094, P080095, P080096, P080097, P080098, P080099, P080100, P080101, P080102, P080103, P080104, P080105, P080106, P080107, P080108, P080109, P080110, P080111, P080112, P080113, P080114, P080115, P080116, P080117, P080118, P080119, P080120, P080121, P080122, P080123, P080124, P080125, P080126, P080127, P080128, P080129, P080130, P080131, P080132, P080133, P080134, P080135, P080136, P080137, P080138, P080139, P080140, P080141, P080142, P080143, P080144, P080145, P080146, P080147, P080148, P080149, P080150, P080151, P080152, P080153, P080154, P080155, P080156, P080157, P080158, P080159, P080160, P080161, P080162, P080163, P080164, P080165, P080166, P080167, P080168, P080169, P080170, P080171, P080172, P080173, P080174, P080175, P080176, P080177, P080178, P080179, P080180, P080181, P080182, P080183, P080184, P080185, P080186, P080187, P080188, P080189, P080190, P080191, P080192, P080193, P080194, P080195, P080196, P080197, P080198, P080199, P080200, P080201, P080202, P080203, P080204, P080205, P080206, P080207, P080208, P080209, P080210, P080211, P080212, P080213, P080214, P080215, P080216, P080217, P080218, P080219, P080220, P080221, P080222, P080223, P080224, P080225, P080226, P080227, P080228, P080229, P080230, P080231, P080232, P080233, P080234, P080235, P080236, P080237, P080238, P080239, P080240, P080241, P080242, P080243, P080244, P080245, P080246, P080247, P080248, P080249, P080250, P080251, P080252, P080253, P080254, P080255, P080256, P080257, P080258, P080259, P080260, P080261, P080262, P080263, P080264, P080265, P080266, P080267, P080268, P080269, P080270, P080271, P080272, P080273, P080274, P080275, P080276, P080277, P080278, P080279, P080280, P080281, P080282, P080283, P080284, P080285, P080286, P080287, P080288, P080289, P080290, P080291, P080292, P080293, P080294, P080295, P080296, P080297, P080298, P080299, P080300, P080301, P080302, P080303, P080304, P080305, P080306, P080307, P080308, P080309, P080310, P080311, P080312, P080313, P080314, P080315, P080316, P080317, P080318, P080319, P080320, P080321, P080322, P080323, P080324, P080325, P080326, P080327, P080328, P080329, P080330, P080331, P080332, P080333, P080334, P080335, P080336, P080337, P080338, P080339, P080340, P080341, P080342, P080343, P080344, P080345, P080346, P080347, P080348, P080349, P080350, P080351, P080352, P080353, P080354, P080355, P080356, P080357, P080358, P080359, P080360, P080361, P080362, P080363, P080364, P080365, P080366, P080367, P080368, P080369, P080370, P080371, P080372, P080373, P080374, P080375, P080376, P080377, P080378, P080379, P080380, P080381, P080382, P080383, P080384, P080385, P080386, P080387, P080388, P080389, P080390, P080391, P080392, P080393, P080394, P080395, P080396, P080397, P080398, P080399, P080400, P080401, P080402, P080403, P080404, P080405, P080406, P080407, P080408, P080409, P080410, P080411, P080412, P080413, P080414, P080415, P080416, P080417, P080418, P080419, P080420, P080421, P080422, P080423, P080424, P080425, P080426, P080427, P080428, P080429, P080430, P080431, P080432, P080433, P080434, P080435, P080436, P080437, P080438, P080439, P080440, P080441, P080442, P080443, P080444, P080445, P080446, P080447, P080448, P080449, P080450, P080451, P080452, P080453, P080454, P080455, P080456, P080457, P080458, P080459, P080460, P080461, P080462, P080463, P080464, P080465, P080466, P080467, P080468, P080469, P080470, P080471, P080472, P080473, P080474, P080475, P080476, P080477, P080478, P080479, P080480, P080481, P080482, P080483, P080484, P080485, P080486, P080487, P080488, P080489, P080490, P080491, P080492, P080493, P080494, P080495, P080496, P080497, P080498, P080499, P080500, P080501, P080502, P080503, P080504, P080505, P08050

Experience the Future at Booth #2511