2020
BREAST ULTRASOUND
WITH TOM STAVROS
Hot Topics in Advanced Screening
and Diagnosis

JANUARY 17-19, 2020
THE WESTIN RIVERWALK
SAN ANTONIO, TX

WorldClassCME.com
(888) 207-9105

PROGRAM DIRECTOR:
Michael J. Ulissey, MD, FACR

FACULTY: A. Thomas Stavros, MD, FACR, FSRU, FRANZCR;
Daniel Herron, MD; Pamela M. Otto, MD, FACR; Jocelyn Rapelyea, MD, FSBI;
Michael J. Ulissey, MD, FACR

20.75 AMA PRA Category 1 Credits™
These credits can be used toward ABR MOC Part 2 requirements

6 SAMs Credits
These credits can be used toward ABR MOC Part 2 SA-CME requirements

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**FACULTY**

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Michael J. Ulissey, MD, FACR  
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**Author: Breast Ultrasound**

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Dignity Health Foundation  
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Professor and Chair of Radiology  
University of Texas Health Sciences Center  
San Antonio, Texas

Henda Salmeron – Guest Speaker  
**Author: Henda’s Law**  
Dallas, Texas

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**FACULTY**

**Jocelyn Rapelyea, MD, FSBI**  
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Associate Director, Breast Imaging and Intervention  
The George Washington University  
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**Michael J. Ulissey, MD, FACR**  
Adjunct Professor  
Department of Radiology  
University of Texas Health Sciences Center  
San Antonio, Texas  
Center for Diagnostic Imaging  
Auburn and Federal Way, Washington

**COURSE OBJECTIVES**

Upon completion of this conference, the participant will be able to:

- Understand the differences in pre-test probabilities and guidelines for interpretation between diagnostic, supplemental screening, and MRI-directed indications for breast ultrasound and how that affects management and interpretation
- Select the most appropriate ultrasound equipment, machine settings, and scan techniques for better diagnostic evaluations
- Understand the anatomic and histopathologic basis for ultrasound appearances
- Correlate areas of clinical, mammographic, screening ultrasound, or MRI concern with ultrasound, and understand the anatomic and histopathologic basis for ultrasound appearances
- Identify both mass and non-mass sonographic findings that are suspicious for malignancy, how to use them in classifying breast masses and in staging breast cancers
- Understand a new way of classifying ultrasound features that can aid in more objectively using and achieving ACR PPV benchmarks for BI-RADS 4 subcategories and function better as biomarkers than prior methods of classification
- Identify the few truly suspicious complex cystic and solid masses that require biopsy and distinguish them from the myriad of non-simple breast cysts that are definitively benign
- Understand the roles of ultrasound and galactography in diagnosis and guiding biopsy in patients presenting with nipple discharge
- Recognize the range of normal and abnormal appearances for breast implants
- Enhance ultrasound-guided breast biopsy and interventional skills
- Utilize the new classification system of breast malignancies that is based upon site of origin – within ducts, within TDLUs, or within peri-ductal mesenchymal tissues for better correlation with prognosis
- Understand the appropriate role for supplemental bilateral whole breast ultrasound as well as other ancillary imaging modalities in women with negative but dense mammograms
- Improve detection and correct classification of small invasive breast cancers while minimizing false positive ultrasound examinations
- Learn how to overcome the headwinds in establishing a supplemental whole breast ultrasound program in women with dense breasts
- Learn to distinguish normal from abnormal regional lymph nodes, determine whether abnormal nodes are more likely metastatic or reactive, and how Z0011 might affect current management of nodes
- Become familiar with a new functional imaging platform called Opto-acoustic Imaging
- Understand the benefits of integrating this new technology into breast ultrasound, so that the radiologist can significantly increase specificity when analyzing a mass, and potentially obviate the need for many breast biopsies

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"Welcome to San Antonio and Hot Topics in Advanced Screening and Diagnosis. This course will emphasize a new classification system on breast cancer and will focus on "non"-mass ultrasound findings, an analysis of causes of false negative BI-RADS 3 classifications, and new ways of classifying breast nodules that can help objectively assign BI-RADS 4 subcategories and improve ultrasound’s ability to serve as a biomarker. I will lead interactive case readings with an audience response system, and we have time set aside for questions and answers."

– Tom Stavros
**REGISTRATION**

Breast Ultrasound with Tom Stavros 2020
Hot Topics in Advanced Screening and Diagnosis
January 17-19, 2020 | The Westin Riverwalk | San Antonio, TX

You may also register online at WorldClassCME.com or by phone at (888) 207-9105, M-F, 8:30 am - 5 pm EST

Name (please print)

Facility/Organization

Degree

Specialty

Medical License# 

State

ARRT# 

ARDMS# 

Military ID#

Address

City

State

Zip

Phone

Fax

E-mail Address (for confirmation and CME certificate)

**Registration Fees**

Physician ................................................................. $1,095
Resident/Retired/Military/VA Physician* .......................... $995
Advanced Practitioner (NP, PA) .................................... $995
Sonographer ............................................................ $895
Single-Day Tuition ..........................Physician/NP/PA $795; Sonographer $695

*Written certification of status required.

Payment Method (please make check payable to World Class CME)

- [ ] Check
- [ ] Discover
- [ ] Visa
- [ ] Master Card
- [ ] AMEX

**Group Registration Discount**

Sign up with others and get a group discount! Call our office to receive $50 off each registrant's fee when you register two or more at the same time.

**Refunds**

A fee of $75 is charged for cancellations received prior to the course date. Refunds cannot be issued after January 2, 2020.

**Accreditation** – World Class CME is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. World Class CME designates this live activity for a maximum of 20.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Board of Radiology Maintenance of Certification – 20.75 AMA PRA Category 1 Credits™ – AMA credits can be used toward ABR MOC Part 2 requirements. SAM credits can be used toward ABR MOC Part 2 SA-CME requirements.

Physician Assistants (PA) – The American Academy of Physician Assistants (AAPA) accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.

Nurse Practitioners and RNs – The American Nurses Credentialing Center and the American Academy of Nurse Practitioners Certification Program accept continuing education credits sponsored by organizations, agencies, or educational institutions accredited or approved by the Accreditation Council for Continuing Medical Education (ACCME).

The American Board of Radiology Maintenance of Certification (ABR), American Board of Medical Specialties (ABMS), and the Accreditation Council for Continuing Medical Education (ACCME) are independent boards. This course is sponsored by World Class CME, a member of the Inteleos family of certification councils.

**Disclosure** – World Class CME relies on its CME faculty to provide program content that is evidence based and free of commercial bias. Therefore, in accordance with ACCME standards, any faculty, program director, reviewer, and/or provider industry relationships will be disclosed and resolved. Speakers are required to openly disclose any limitations of data and/or any discussion of any off-label, experimental, or investigational uses of drugs or devices in their presentations.

For disclaimers and other details about this course, visit WorldClassCME.com.
## FRIDAY, JANUARY 17, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
<th>Faculty</th>
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</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Registration and Breakfast</td>
<td>Ulissey</td>
</tr>
<tr>
<td>7:25</td>
<td>Morning Announcements</td>
<td>Stavros</td>
</tr>
<tr>
<td>7:30</td>
<td>Breast Ultrasound Physics and Equipment Choices</td>
<td>Stavros</td>
</tr>
<tr>
<td>8:00</td>
<td>Breast Ultrasound Anatomy – The Basis for Understanding Breast Pathology (SAM)</td>
<td>Stavros</td>
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<tr>
<td>8:45</td>
<td>Breast Ultrasound Indications and Clinical and Mammographic Correlation with Ultrasound (1 SAM with above)</td>
<td>Stavros</td>
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<tr>
<td>9:15</td>
<td>Questions and Answers</td>
<td>Faculty</td>
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<tr>
<td>9:30</td>
<td>Break and Visit Exhibits</td>
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<tr>
<td>10:00</td>
<td>Ultrasound of Breast Cysts That Are Not Simple (SAM)</td>
<td>Stavros</td>
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<tr>
<td>11:00</td>
<td>US of Solid Breast Masses – US Features as “Qualitative Diagnostic Biomarkers” – Finding BI-RADS 3/4A Border to Decide Biopsy vs. No Biopsy</td>
<td>Stavros</td>
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<tr>
<td>11:45</td>
<td>Questions and Answers</td>
<td>Faculty</td>
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<tr>
<td>12:00</td>
<td>Lunch on Your Own</td>
<td></td>
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<tr>
<td>1:10</td>
<td>Why You, and Everyone, Should Be Using BI-RADS 4 Subcategories with Ultrasound, and a Suggestion of How We Might Actually Get There</td>
<td>Stavros</td>
</tr>
<tr>
<td>1:30</td>
<td>New US Feature Scoring System to Take Us Beyond Biopsy vs. No Biopsy – US Features as “Quantitative Predictive Biomarkers.” (SAM)</td>
<td>Stavros</td>
</tr>
<tr>
<td>2:00</td>
<td>Results of New US Feature Scoring System as “Quantitative Predictive Biomarkers” – With Raw Scores and with AI (1 SAM with above)</td>
<td>Stavros</td>
</tr>
<tr>
<td>2:30</td>
<td>Questions and Answer</td>
<td>Faculty</td>
</tr>
<tr>
<td>2:45</td>
<td>Break and Visit Exhibits</td>
<td></td>
</tr>
<tr>
<td>3:15</td>
<td>An Introduction to Opto-acoustic Imaging</td>
<td>Ulissey</td>
</tr>
<tr>
<td>3:55</td>
<td>Interactive Case Reading – Objectively and Precisely Predicting Percentage Likelihood of Malignancy and BI-RADS 4 Subcategories from New US Feature Scoring System</td>
<td>Stavros</td>
</tr>
<tr>
<td>4:30</td>
<td>Interventional Procedures of the Breast</td>
<td>Otto</td>
</tr>
<tr>
<td>5:10</td>
<td>Questions and Answers</td>
<td>Faculty</td>
</tr>
<tr>
<td>5:20</td>
<td>Adjourn for the Day</td>
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</tbody>
</table>

Please bring your smartphone to class each day.

## SATURDAY, JANUARY 18, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
<th>Faculty</th>
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</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Breakfast</td>
<td>Ulissey</td>
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<tr>
<td>7:25</td>
<td>Morning Announcements</td>
<td>Rapelyea</td>
</tr>
<tr>
<td>7:30</td>
<td>Dense Breast Tissue: Risk of Breast Cancer and Limitations of Mammography</td>
<td>Rapelyea</td>
</tr>
<tr>
<td>8:00</td>
<td>Breast Cancer Screening Using Automated 3D Ultrasound</td>
<td>Rapelyea</td>
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<tr>
<td>8:15</td>
<td>Whole Breast Ultrasound Scanning Techniques and Methods (SAM)</td>
<td>Herron</td>
</tr>
<tr>
<td>8:45</td>
<td>Using New US Feature Scores as Prognostic Biomarkers – Correlating US Features with Hormone Receptor Status, HER2, Ki-67, Histologic Grade, and Molecular Subtypes (1 SAM with Above)</td>
<td>Stavros</td>
</tr>
<tr>
<td>9:30</td>
<td>Questions and Answers</td>
<td>Faculty</td>
</tr>
<tr>
<td>9:45</td>
<td>Break and Visit Exhibits</td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Interactive Case Reading – Using New US Feature Scoring System as Prognostic Biomarkers</td>
<td>Stavros</td>
</tr>
<tr>
<td>10:45</td>
<td>Analysis of False Negative US BI-RADS Classifications – “Absolute” False Negatives and “Relative” False Negatives – Why Did They Occur and How to Minimize Them</td>
<td>Stavros</td>
</tr>
<tr>
<td>11:15</td>
<td>Interactive Case Reading – Reading Difficult Real-World Cases That Were Under-Classified with Ultrasound</td>
<td>Stavros</td>
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<tr>
<td>11:45</td>
<td>Questions and Answers</td>
<td>Faculty</td>
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<tr>
<td>12:00</td>
<td>Lunch on Your Own</td>
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<tr>
<td>1:10</td>
<td>Henda’s Law – Experiences from Henda Herself</td>
<td>Salmeron</td>
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<td>1:30</td>
<td>Alternatives to Preoperative Wire Localizations</td>
<td>Herron</td>
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<tr>
<td>1:55</td>
<td>Questions and Answers</td>
<td>Salmeron &amp; Herron</td>
</tr>
<tr>
<td>2:05</td>
<td>Break and Visit Exhibits</td>
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<tr>
<td>2:25-5:15</td>
<td>Breast Ultrasound Workshops</td>
<td>Herron, Otto, Rapelyea, Stavros, Ulissey</td>
</tr>
</tbody>
</table>

Please bring your smartphone to class each day.
INFORMATION
Course Materials and CME Certificate
You will receive a digital syllabus containing lecture abstracts and slides accompanied by a notebook with lecture objectives and notes pages. Your course evaluation and CME certificate will be sent to the email you provided when registering.

Lecture Slides Download
Please look for an email a few days before the course dates with a link to download the lecture slides (to your tablet or computer) or print a syllabus if you wish to have one on hand at the course.

Meals
An expanded continental breakfast, as well as morning refreshments, will be provided daily in the exhibit hall.

Exhibits
Screening and diagnostic ultrasound equipment, as well as national leaders in medical publishing, will be on site.

Target Audience
Radiologists and radiology residents/fellows, breast surgeons, sonographers, radiology technologists and advanced practitioners who desire to learn, in depth, how to use breast ultrasound in a clinical practice setting for diagnosis, screening and staging of breast disease.

Explore San Antonio
The Westin Riverwalk’s fabulous central locale along the cypress-lined Paseo del Rio is ideal for exploring San Antonio’s history, great shopping, fine dining and exciting nightlife. A river taxi is a great way to see the bright evening lights of the city or visit the historic sites during the day. Street cars also make for an easy and fun way to get around.

The Pearl District’s cultural offerings, gardens, restaurants and farmer’s market are the latest additions to the award winning culinary scene of San Antonio. A 1.3-mile extension of the Riverwalk features art exhibits, parks, breweries and boutiques.

After a night on the town, take a walk or a jog along the Riverwalk, which extends from the heart of San Antonio in two directions – the Pearl District on one end and the historic King William District on the other. Join the crowd in the evenings for a laser light show at Main Plaza, which tells the story of San Antonio from its beginning to today. Check mainplaza.org for the schedule.

At the hotel, guests can energize in the fitness studio or enjoy a soothing spa experience. Known for their outstanding service, the Westin staff will make your San Antonio escape a vacation to remember.

Hotel Accommodations
A discounted room rate of $215 for City View and $235 for River View room is available for a limited number of rooms when reservations are made before 5:00 pm EST January 1, 2020. Call early as these rooms may sell out prior to that date. For reservations, call 1-888-627-8396 and identify yourself as an attendee of the World Class CME course.

SUNDAY, JANUARY 19, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>7:00</td>
<td>Breakfast</td>
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<tr>
<td>7:25</td>
<td>Morning Announcements</td>
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<tr>
<td>7:30</td>
<td>Ultrasound of Regional Lymph Nodes of the Breast, Including Z0011,</td>
<td>Stavros</td>
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<td></td>
<td>The Sound Study, and Other Newer Studies (SAM)</td>
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<tr>
<td>8:30</td>
<td>Ultrasound of Nipple Discharge and Papillary Lesions (SAM)</td>
<td>Stavros</td>
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<tr>
<td>9:15</td>
<td>Evaluation and Treatment of Breast Pain (1 SAM with above)</td>
<td>Herron</td>
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<tr>
<td>9:30</td>
<td>Lifestyle Choices to Help Prevent Breast Cancer</td>
<td>Herron</td>
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<tr>
<td>9:45</td>
<td>Questions and Answers</td>
<td>Faculty</td>
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<tr>
<td>10:00</td>
<td>Break</td>
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<tr>
<td>10:15</td>
<td>Making 2nd Look US after MRI More Effective – A Proposal for an</td>
<td>Stavros</td>
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<td>Ultrasound Non-Mass Lexicon to Better Correlate with MRI Non-mass</td>
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<td>Enhancement</td>
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<tr>
<td>11:00</td>
<td>Interactive Cases – Non-Mass US Features to Correspond to NME</td>
<td>Stavros</td>
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<td>on MRI (SAM)</td>
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<tr>
<td>11:15</td>
<td>Ultrasound of Mammary Implants (1 SAM with above)</td>
<td>Stavros</td>
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<tr>
<td>12:00</td>
<td>Questions and Answers</td>
<td>Stavros</td>
</tr>
<tr>
<td>12:15</td>
<td>Meeting Adjourns</td>
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Program Details May Change
2020 BREAST ULTRASOUND WITH TOM STAVROS
JAN. 17-19, 2020
San Antonio, TX

20.75 CMES
6 SAMs

Upcoming Courses

Breast Ultrasound with Tom Stavros 2019
Diagnosis, Screening, Staging, Biomarkers & Niche Applications
November 7-10, 2019
Ritz Carlton® , Pentagon City
Arlington, VA

The Best of the Big Apple OB-GYN Ultrasound 2019
November 15-17, 2019
Grand Hyatt New York
New York, New York

National Diagnostic Imaging Symposium 2019
December 8-12, 2019
Disney’s Yacht Club Resort
Lake Buena Vista, Florida

Maternal-Fetal Imaging 2020
Advances in OB-GYN Ultrasound with Guidelines and Practical Tips
January 17-19, 2020
The Westin Riverwalk
San Antonio, TX

Breast Ultrasound with Tom Stavros
Hot Topics in Advanced Screening and Diagnosis
January 17-19, 2020
The Westin Riverwalk
San Antonio, TX

Coming soon...