Breast Imaging Update
November 10-12, 2016
CME Credits: 15
Self-Assessment Credits: 9.25
2 Optional Mini-Courses
CME Credits: 3.75 each

Ultrasound Update
November 13-14, 2016
CME Credits: 8.25
Self-Assessment Credits: 8.0
1 Optional Hands-on Mini-Course
CME Credits: 1.5

Omni Rancho Las Palmas Resort & Spa
Palm Springs, California

https://radiology.ucsf.edu/cme
Course Outline
This breast imaging course is designed for the clinical radiologist who specializes in breast imaging or who practices general diagnostic radiology including breast imaging. A practical approach will be emphasized, providing an overview and update on clinically relevant topics in diagnostic imaging of the breast. This course also fulfills the continuing medical education requirement for MQSA in breast imaging.

The course will highlight recent developments, including the new 5th edition of BI-RADS and the opportunity for attendees to discuss these updates with the experts who have developed these protocols. There will be daily interactive panel question and discussion sessions, and three small group workshops that will focus on interpretation and diagnosis of challenging cases using various imaging methods.

Self-Assessment
This course will offer 9.25 Self-Assessment credits in Breast Imaging. As of January 1, 2013, updated MOC Part 2 requirements: 75 CME credits every three years, at least 25 of which must be self-assessment activities (SA-CME, which includes SAMs). For more information: www.theabr.org/moc-dr-comp2

Course Objectives
At the completion of this course, the attendee should be able to:
1. Apply and utilize BI-RADS categories as appropriate;
2. Develop a skillful and practical approach to performing and interpreting mammography, tomosynthesis, breast US and breast MRI;
3. Anticipate and resolve potential medicolegal issues relevant to breast imaging.

Two Optional Mini-Courses
Two optional half-day mini-courses will be offered, which will further explore the clinical applications of evolving imaging techniques to breast cancer detection and diagnosis:
1. Tomosynthesis, Breast Density and Risk Assessment on Friday afternoon (separate registration and fee). This optional mini-course provides an additional 3.75 CME credits, and 3.5 SA-CME credits.
2. Breast MRI on Saturday afternoon (separate registration and fee). This optional mini-course provides an additional 3.75 CME credits, and 3.75 SA-CME credits.

Registration
https://www.cme.ucsf.edu
Pre-registration is encouraged to ensure your space in this course. Pre-register by September 16, 2016 and save $50 on your enrollment fee.

Tuition $700 for all medical professionals; registration discounts are available for qualifying attendees, please review the registration form on the last page.

On-site Registration
Thursday, November 10, 2016 at 7:00 am
Omni Rancho las Palmas Resort

Syllabus An electronic syllabus and paper notebook will be provided onsite. You must provide an email address with your registration to receive advance syllabus information, which will be distributed electronically.
# General Program  Morning Sessions

## Thursday, November 10, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:00 am</td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td>7:25</td>
<td>Welcome and Introductions</td>
<td>Heather I. Greenwood, MD</td>
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<tr>
<td>7:30</td>
<td>The Current BI-RADS 5th Edition: Mammography SA</td>
<td>Edward A. Sickles, MD</td>
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<tr>
<td>8:00</td>
<td>Breast Ultrasound and BI-RADS Update SA</td>
<td>Jessica H. Hayward, MD</td>
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<td>8:45</td>
<td>Controversies in Breast Cancer Screening: What Do the Data Really Show?</td>
<td>Edward A. Sickles, MD</td>
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<tr>
<td>9:30</td>
<td>Recess</td>
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<tr>
<td>9:45</td>
<td>Digital Breast Tomosynthesis: Today and Tomorrow SA</td>
<td>Emily F. Conant, MD</td>
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<tr>
<td>10:30</td>
<td>Mammographic Follow-up as Alternative to Biopsy SA</td>
<td>Edward A. Sickles, MD</td>
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<tr>
<td>11:15</td>
<td>Case-Based False Positives and Negatives: Where Did We Go Wrong? SA</td>
<td>Emily F. Conant, MD</td>
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<tr>
<td>12:00 pm</td>
<td>SAM Questions and Faculty Panel</td>
<td>Heather I. Greenwood, MD</td>
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## Friday, November 11, 2016

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<tr>
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<tr>
<td>7:00 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:30</td>
<td>Breast MRI BI-RADS: Current Edition SA</td>
<td>Heather I. Greenwood, MD</td>
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<tr>
<td>8:00</td>
<td>Breast MRI Biopsy: Tips &amp; Tricks SA</td>
<td>Bonnie N. Joe, MD PhD</td>
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<td>8:30</td>
<td>Mammographic Analysis of Calcifications SA</td>
<td>Heather I. Greenwood, MD</td>
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<td>9:00</td>
<td>Approach to Diagnostic Imaging SA</td>
<td>Rita I. Freimanis, MD</td>
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<td>9:30</td>
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<td>10:00</td>
<td>Current Concepts in Imaging of Nodal Involvement in Breast Cancer SA</td>
<td>Jessica H. Hayward, MD</td>
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<td>10:30</td>
<td>Stereotactic Core Biopsy SA</td>
<td>Heather I. Greenwood, MD</td>
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<td>11:00</td>
<td>The Palpable Breast Mass SA</td>
<td>Rita I. Freimanis, MD</td>
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<td>11:45</td>
<td>SAM Questions and Faculty Panel</td>
<td>Heather I. Greenwood, MD</td>
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## Saturday, November 12, 2016

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<td>Small Group Workshops: Parallel Sessions A</td>
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<td>Small Group Workshops: Parallel Sessions B</td>
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**Workshop Sessions** Registrants will be divided into three groups at the beginning of the course, and each group will rotate through all three workshops. Dr. Sickles’ workshop is based on 20 “unknown” cases that will be displayed on digital workstations. Registrants should plan an adequate block of time to preview these cases prior to attending his workshop (cases will be available for viewing starting at 8 am on Thursday).

**Tomosynthesis Multi-modality Case Review - Emily Conant, MD**

**Instructive Breast MRI Cases - Bonnie N. Joe, MD, PhD**

**Challenging Digital Mammography Cases - Edward A. Sickles, MD**
Optional Mini-Courses  Separate Registrations and Fees

Friday, November 11, 2016 - OPTIONAL: Tomosynthesis, Breast Density and Risk Assessment
  1:30 pm  Tomosynthesis: Pearls for Implementation into Clinical Practice  
  2:15  Supplementary Screening in an Era of Breast Density Legislation
  3:00  Tomosynthesis with Multi-Modality Correlation: Case Review 1
  3:30  Recess
  3:45  Beyond Breast Density: Risk Assessment in Breast Imaging
  4:15  Tomosynthesis with Multi-Modality Correlation: Case Review 2
  4:45  SAM Questions and Faculty Panel
  5:30  Adjourn

Saturday, November 12, 2016 - OPTIONAL: Breast MRI
  1:30 pm  Breast MR Optimization for the Clinical Radiologist
  2:15  Emerging Technology in Breast MRI: DWI, Spectroscopy, Fast MRI
  3:00  MR Safety
  3:30  Recess
  3:45  Breast Radiologist Communication: Delivering Bad News
  4:15  Monitoring Response to Therapy in Breast Cancer MR and PET/CT
  5:00  SAM Questions and Faculty Panel
  5:30  Adjourn

Accreditation

The University of California, San Francisco School of Medicine (UCSF) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

General Session  UCSF designates this live activity for a maximum of 15.0 AMA PRA Category 1 Credits.™
Additional MQSA / ACR credits include: 3.0 in MR, 1.5 in US, 0.5 in Biopsy, 4.5 in Digital Mammography, and 2.5 in Tomosynthesis. Registrants will review 20 mammography cases.

Tomosynthesis Mini-Course  UCSF designates this live activity for a maximum of 3.75 AMA PRA Category 1 Credits.™
Additional MQSA / ACR credits include: 0.5 in MR, 0.5 in US, 0.25 in Digital Mammography, and 1.75 in Tomosynthesis.

Breast MRI Mini-Course  UCSF designates this live activity for a maximum of 3.75 AMA PRA Category 1 Credits.™
Additional MQSA / ACR credits include: 3.0 in MR and 0.25 in Biopsy.

Physicians should claim only the credit commensurate with the extent of their participation in each activity.

This educational activity meets the requirement under California State Assembly Bill 1195, continuing education and cultural and linguistic competency.

SA  These lectures will include Self-Assessment Credit (SA-CME).
Course Outline
This course is designed for all clinical radiologists whose practices include diagnostic ultrasound. The program offers an overview and updates of obstetric, gynecologic, small parts and Doppler sonography. A wide range of applications of ultrasound will be covered, with emphasis on practical approaches and clinical relevance.

Highlights include: recent developments in the use of ultrasound contrast and applications of musculoskeletal sonography, new guidelines regarding ultrasound assessment of early pregnancy and postmenopausal bleeding, and information about incorporating quality improvement in the utilization of ultrasound.

Attendees will learn how to optimize ultrasound-guided procedures, and an optional small group workshop will be offered to allow for hands-on practice. There will be daily interactive sessions and opportunities for questions and discussion.

Self-Assessment
This course will offer 8.0 Self-Assessment credits in Ultrasound. As of January 1, 2013, updated MOC Part 2 requirements: 75 CME credits every three years, at least 25 of which must be self-assessment activities (SA-CME, which includes SAMs). For more information: www.theabr.org/moc-dr-comp2

Course Objectives
At the completion of this course, the attendee should be able to:
1. Identify established ultrasound criteria for determination of normal and abnormal early intrauterine pregnancies;
2. Know published guidelines for ultrasound examinations done to assess 1st and 2nd trimester pregnancies and recognize features of ectopic pregnancies;
3. Learn new applications and ways to introduce use of ultrasound contrast in clinical practice;
4. Implement technical tips for optimizing image quality and avoiding errors in interpretation of ultrasound exams, useful for incorporating Continuous Quality Improvement (CQI) program in clinical practice;
5. Learn current updates on ultrasound applications/assessment of the pelvis, scrotum, thyroid, and musculoskeletal system;
6. Recognize common vascular abnormalities detectable by Doppler ultrasound and identify potential pitfalls in Doppler technique;

Optional Hands-on Mini-Course
An optional mini-course will be offered on Sunday afternoon. This hands-on opportunity for real-time practice of procedures using phantoms will allow for individual assistance. Technical tips and suggestions regarding needle selection and approach will be provided. This optional mini-course provides an additional 1.5 CME credits.

Course Faculty
Vickie A. Feldstein, MD
Course Chair
Professor of Radiology, and of Obstetrics, Gynecology and Reproductive Sciences

Roy A. Filly, MD
Professor Emeritus of Radiology, and of Obstetrics, Gynecology and Reproductive Sciences

Lori A. Strachowski, MD
Professor of Radiology, and of Obstetrics, Gynecology and Reproductive Sciences
Chief, Ultrasound
San Francisco General Hospital

Stefanie Weinstein, MD
Associate Professor of Radiology
Assistant Director, Radiology Residency
Chief, Ultrasound
Veterans Affairs Medical Center

Registration
https://www.cme.ucsf.edu
Pre-registration is encouraged to ensure your space in this course. Pre-register by September 16, 2016 and save $50 on your enrollment fee.

Tuition $ 600 for all medical professionals; registration discounts are available for qualifying attendees, please review the registration form on the last page.

On-site Registration
Sunday, November 13, 2016 at 7:30 am
Omni Rancho las Palmas Resort

Syllabus An electronic syllabus and paper notebook will be provided onsite. You must provide an email address with your registration to receive advance syllabus information, which will be distributed electronically.
Course Program

Sunday, November 13, 2016
7:30 am  Registration and Continental Breakfast
8:00    Welcome and Announcements                    Vickie A. Feldstein, MD
8:10    US Assessment of Early Pregnancy Failure: New Criteria  
        SA                                      Lori M. Strachowski, MD
8:40    Vascular/Doppler US: Pearls & Pitfalls  
        SA                                     Stefanie Weinstein, MD
9:20    Thyroid US: Which Nodules to Biopsy  
        SA                                    Vickie A. Feldstein, MD
9:50    Recess / Pre-view Case-of-the-Day
10:00   Postmenopausal Endometrium: Considerations, Cutoffs & Controversies  
        SA                                  Lori M. Strachowski, MD
10:40   Musculoskeletal (MSK) Ultrasound: an Introduction  
        SA                                Stefanie Weinstein, MD
11:20   Scrotal Sonography: an Organized Approach  
        SA                              Vickie A. Feldstein, MD
11:45   US Guidance for Needle Procedures  
        SA                           Vickie A. Feldstein, MD
12:20 pm  Review Case-of-the-Day, Questions & Discussion
12:30    Adjourn

Monday, November 14, 2016
7:30 am    Continental Breakfast
8:00      Ultrasound Contrast: Update  
        SA                           Stefanie Weinstein, MD
8:30      Acute Pelvic Pain in the Non-Pregnant Patient  
        SA                        Lori M. Strachowski, MD
9:10      Recess / Pre-view Case-of-the-Day
9:20      Level 1 OB US: Guidelines & Update  
        SA                         Lori M. Strachowski, MD
9:50      Ultrasound CQI: Lessons Learned  
        SA                          Vickie A. Feldstein, MD
10:10     Ectopic Pregnancy: The Usual Stuff  
        SA                        Roy A. Filly, MD
11:10     Recess / Pre-view Case-of-the-Day
11:20     Ectopic Pregnancy: All the Other Stuff  
        SA                         Roy A. Filly, MD
12:20 pm  Review Case-of-the-Day, Questions & Discussion
12:30    Adjourn

Accreditation

The University of California, San Francisco School of Medicine (UCSF) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

General Session  UCSF designates this live activity for a maximum of 8.25 AMA PRA Category 1 Credits.™

The total credits are inclusive of 8.25 in Ultrasound.

Needle Biopsy  UCSF designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credits.™

The total credits are inclusive of 1.5 in Ultrasound.

Physicians should claim only the credit commensurate with the extent of their participation in each activity.

This educational activity meets the requirement under California State Assembly Bill 1195, continuing education and cultural and linguistic competency.

SA  These lectures will include Self-Assessment Credit (SA-CME).
Hotel Reservations
tel: 866–423–1195 / 760–568–2727
Run of House: $185 / Reservation deadline: Monday, October 17, 2016

The daily resort fee has been reduced to $5 per day (regularly $32) for UCSF attendees who book directly with the hotel via phone or reservation weblink only.

When making your accommodation decisions, please take into consideration that staying at the host hotel helps UCSF meet its contractual obligations and keeps registration fees reasonable.

The Omni RLP has reserved a limited block of rooms at special room rates for this conference. Book online using the weblink above, or call the Reservations Department directly at the number above and mention that you are attending the UCSF Radiology course to receive the discounted rates.

Conference rates for reservation requests made after the deadline cannot be guaranteed and will be extended on a space-available basis only. A credit card number is required to guarantee your reservation. The room rate includes in-room high-speed internet access, fitness center access, local and toll-free calls, and in-room coffee.

A third adult per room is $15 per night, fourth adult $25; no additional charge for children under 18. Check-in is 4:00 pm, check-out is 11:00 am. Rates exclude 11% state & local taxes, 2% business development fee, 0.15% state tourism fee (subject to change). No-shows and cancellations made less than 7 days from scheduled arrival will be charged a one night’s stay. Early departure fee is $75. Valet and self-parking are both complimentary.

Omni Rancho las Palmas Resort & Spa
41-000 Bob Hope Drive – Rancho Mirage, CA 92270

The Omni Rancho Las Palmas is the embodiment of new desert cool. Guests will enjoy new experiences such as Splashtopia, a family-fun pool and water playground; and bluEmber, the signature restaurant in the heart of the plaza, which exudes the sun-drenched charm and relaxed elegance of the Southern California desert.

Adjacent to the Resort is a 27-hole Ted Robinson-designed golf course, with three distinct 9-hole layouts. Rounding out the dramatic changes are a new lobby, enhanced guest rooms, the refurbished 20,000-square-foot European-style Spa Las Palmas, an Internet marketplace, and the sporty R Bar & Lounge.

Within walking distance of the Resort is The River, a family-friendly shopping, restaurant and theater complex. El Paseo Drive and the Westfield Shopping Center are only two miles away.
The Greater Palm Springs Area
Palm Springs is located about 130 miles or a two-hour drive east of Los Angeles. The area includes the neighboring towns of Cathedral City, Rancho Mirage, Palm Desert and Indian Wells, as you travel southeast along Route 10 or Highway 111. The area has an average 350 days of sunshine a year, and winter temperatures are usually in the 70’s. The mix of southwestern culture and California history combine to make the Palm Springs area an eclectic mix of food, culture, outdoor activities, and an ideal opportunity for the art aficionado or furniture collector to enjoy the search for that unique find.

Palm Springs Highlights
www.visitgreaterpalmsprings.com
Villagefest – on Thursday evenings in downtown Palm Springs: enjoy an array of artists, artisans, entertainers, snacks and a farmers market.
The Gardens on El Paseo – stroll and shop on one of the most bountiful upscale shopping venues.
Living Desert Zoo & Botanical Garden – 1,200 acres of scenic trails and exhibits including gardens, live animal shows, a play park, a model train exhibit and tram rides.
Children’s Discovery Museum – with over fifty hands-on exhibits for kids of all ages.
Moorten Botanical Gardens – examine over 3,000 examples of southwestern cacti and plants.
Air Museum – experience one of the world’s largest collections of WW2 fighter planes.
Aerial Tramway – ascend 8,000 feet in the world’s largest rotating trams, with a spectacular, never-ending panoramic view of Palm Springs below.
Joshua Tree National Park – located on the northeast edge of the Palm Springs area, the nearly 800,000 acre park encompasses the most interesting geologic displays found in California’s deserts.
REGISTRATION
Breast Imaging / Nov 10-12  Ultrasound Update / Nov 13-14
RAD17012  RAD17004
Early Enrollment Deadline:  Friday, September 16, 2016

Four easy ways to register:
1. Mail this form to UCSF Office of CME, PO Box 45368, San Francisco, CA 94145–0368
2. Phone using Visa, Amex or Mastercard. 415−476−5808, 8:30 am - 4:00 pm (Pacific Time)
3. Online at https://www.cme.ucsf.edu
4. Fax this form to 415−502−1795

REGISTRANT INFORMATION (PLEASE PRINT)
Name _______________________________________________________________
                  First Last Degree
Address  ____________________________________________________________
______________________________________________________________
Tel  _____________________________  Fax  ____________________________
     Area Code Area Code
E-mail  ______________________________________________________________
You must provide your email address to receive advance syllabus information.
Paper copies will not be provided on site.
Would you like to receive general UCSF Radiology CME email notices?  ☑ Yes  ☑ No
Month / Day of Birth for record verification:  _______  /  _______  / X X X X

METHOD OF PAYMENT
☑ Visa        ☑ Mastercard        ☑ American Express        ☑ Check, payable to UC Regents.
Card No. ______________________________________________________________
Exp. Date _____________  Signature ______________________________________

Payment may be made by credit card or by check or money order drawn on a U.S. bank in U.S. currency. We regret that we cannot accept checks drawn on foreign banks. Enrollment confirmation will be mailed to you within two weeks of receipt of the application.

Cancellation  A refund of the enrollment fee, less $75, will be made upon receipt of a written request only by Friday, October 28, 2016. No refunds will be made after this date.

No discounts on Optional Sessions or Morning Daily Fee, cancellation policy applies.

In the unlikely event that the program is cancelled, UCSF Radiology will refund the registration fee in full, but cannot be responsible for any hotel or travel costs.

You must register for each course/session separately.

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<tr>
<th>BREAST AM - 3 DAYS</th>
<th>FULL COURSE - AM SESSIONS</th>
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<tr>
<td>☑ $195  Fri PM, Nov 11 - Tomo &amp; Breast Density</td>
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