Course Outline
This course will present a comprehensive state-of-the-art update on clinically relevant topics in neuroradiology and musculoskeletal imaging, including a discussion of optimized protocols with 1.5T and 3T MR units.

Neuroradiology topics to be addressed include updated strategies for imaging of the peripheral nervous system, stroke and other neurologic emergencies, and routine head & neck abnormalities.

Musculoskeletal imaging will include discussions of new metal reduction sequences for MRI, and diagnostic approaches to wrist pain.

Self-Assessment
This course will offer 21.75 Self-Assessment credits: 11.0 in Musculoskeletal and 10.75 in Neuro.

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 their acquired knowledge to improve imaging protocols for brain, head & neck, spine, nerve and musculoskeletal CT/MR imaging;
2. Recognize specific imaging features of infection and tumors in the head, neck, spine and peripheral nerves;
3. Distinguish between normal anatomy, common anatomic variants and pathological disorders related to MRI of the major musculoskeletal joints, brain, head, neck and spine;
4. Recognize internal derangement appearances of the knee, shoulder, elbow, wrist, hip, knee, and foot;
5. Implement newer MR sequences such as 3D volumetric imaging and metal suppression techniques;
6. Update knowledge about MR arthrographic technique and findings;
7. Sharpen evaluation of muscle and tendon abnormalities;
8. Identify important imaging characteristics of bone tumors;
9. Realize various abnormalities that simulate musculoskeletal tumors;
10. Appreciate advances in stroke management and their impact on imaging; and
11. Develop strategies for evaluating common and uncommon abnormalities in the neck and spine
Course Program  page 1 of 2

Sunday, February 12, 2017

7:00 am  Registration and Continental Breakfast
7:25  Welcome and Introductions
7:30  Knee Menisci: Pearls & Pitfalls  SA  Lynne S. Steinbach, MD
8:15  Anterior Cruciate Ligament Reconstruction  SA  Matthew D. Bucknor, MD
9:00  Knee: MRI Case-based Review  SA  Robert D. Boutin, MD
9:45  Recess
10:00  MR Arthrography  SA  Lynne S. Steinbach, MD
10:45  Orthopedic Interposition Injuries  SA  Robert D. Boutin, MD
11:05  Radiographic Evaluation of Femoroacetabular Impingement  SA  Matthew D. Bucknor, MD
11:30  Pre and Post -Op Hip: MRI Case-based Review  SA  Robert D. Boutin, MD
12:15 pm  Questions and Discussion
12:30  Adjourn

Monday, February 13, 2017

7:00 am  Continental Breakfast
7:30  MRI of Shoulder Instability  SA  Lynne S. Steinbach, MD
8:15  MRI of the Rotator Cuff  SA  Lynne S. Steinbach, MD
9:00  Elbow Injuries in Athletes  SA  Matthew D. Bucknor, MD
9:45  Recess
10:00  Wrist & Hand: MRI Case-based Review  SA  Robert D. Boutin, MD
10:45  MRI of the Foot  SA  Lynne S. Steinbach, MD
11:30  Two Other Diagnostic Challenges in the Foot & Ankle  SA  Matthew D. Bucknor, MD
12:15 pm  Questions and Discussion
12:30  Adjourn

Tuesday, February 14, 2017

7:00 am  Continental Breakfast
7:30  Imaging of Bone Tumors: Helpful Tips  SA  Matthew D. Bucknor, MD
8:15  Musculoskeletal Pseudo-Tumors  SA  Lynne S. Steinbach, MD
9:00  Muscle & Tendon: Case-based Review  SA  Robert D. Boutin, MD
9:45  Recess
10:00  CNS Infection: the Bug Parade  SA  Christopher P. Hess, MD, PhD
10:45  Spine Infection: from Aureus to Zika  SA  Vinil N. Shah, MD
11:30  Sinonasal Inflammation  SA  Christine M. Glastonbury, MBBS
12:15 pm  Questions & Discussion
12:30  Adjourn

Wednesday, February 15, 2017
No formal program.
**Course Program**  page 2 of 2

**Thursday, February 16, 2017**

7:00 am  Continental Breakfast  
7:30  Current Concepts in Stroke Imaging  
8:15  Pearls in Head & Neck Imaging  
9:00  Imaging Evaluation of Sciatic Neuropathy  
9:45  Recess  
10:00  Practical Brachial Plexus MRI  
10:30  Imaging Approach to the Neck Mass  
11:15  Sella & Central Skull Base  
12:00 pm  Questions & Discussion  
12:15  Adjourn

**Friday, February 17, 2017**

7:00 am  Continental Breakfast  
7:30  Value-based Imaging in the Degenerative Spine  
8:15  Expert Neuroanatomy in 30 Minutes or Less  
8:45  Understanding the Brainstem: the Rule of 4's  
9:15  Imaging of Cranial Neuropathy: CN1-6  
9:45  Recess  
10:00  Imaging of Cranial Neuropathy: CN7-12  
10:30  CNS Emergencies  
11:00  How to Handle Cervical Lymph Nodes  
11:30  CSF Hypotension: Find and Treat the Leak  
12:00 pm  Questions & Discussion  
12:15  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.*

UCSF designates this live activity for a maximum of 23.25 **AMA PRA Category 1 Credits.™** Physicians should claim only the credit commensurate with the extent of their participation in the activity. The total credits are inclusive of 3.5 in CT and 18.5 in MRI.

This live activity also qualifies for credit for physician assistants (PA) and registered nurses (RN). Please check with your state licensing board to ensure compliance.

*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).
At the Orchid, an ambience of comfort and luxury has been adapted to the natural surroundings and beauty of the island. Among the many resort features that guests can enjoy are plexipave tennis courts (including a stadium court); a ten-thousand square-foot freshwater swimming pool and surrounding whirlpools; and a protected white sand lagoon. Activities include creative wellness programs, basketball, poolside ping-pong, beach volleyball, and other water activities including outrigger canoes.

Guests may start off their mornings with a tennis clinic, power walk and stretch, low-impact aerobic conditioning, or even a snorkel cruise. The 36-hole Francis H. I'i Brown Golf Course is both challenging and spectacular, as it runs along ancient lava flows, native landmarks and the ocean coastline. The Spa Without Walls offers a variety of spa and massage treatments in private, ocean-side cabanas. The Fitness Center is accessible 24/7.

The Orchid’s Keiki Aloha (children’s program) utilizes the hotel's oceanside location and enables its young guests to learn more about Hawaii and share in the aloha spirit. Children ages five through twelve (who are staying with their parents at the hotel) can participate in a wide range of complimentary activities, including Hawaiian storytelling, hula lessons, coconut-leaf weaving and other island arts & crafts. Prices vary with half-day or full-day programs. The resort also offers a children’s menu (ages twelve and under) in all dining rooms.
Air Travel
UCSF Radiology has negotiated group discounts with Delta, United and Hawaiian Airlines for radiology course attendees. Book online to avoid additional booking fees. Kona airport code = KOA.

<table>
<thead>
<tr>
<th>Airline</th>
<th>Promo Code</th>
<th>Toll-Free (add’l booking fee)</th>
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<tbody>
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<td>Delta</td>
<td>NMNKQ</td>
<td>800–328–1111</td>
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<td>800–426–1122</td>
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<tr>
<td>Hawaiian</td>
<td>AMUCSFPRPE</td>
<td>800–367–5320</td>
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Car Rental
[www.hertz.com](http://www.hertz.com) / CV# 01SY0263 / 800–654–2240

Arrangements have been made with Hertz Car Rental for special rates during this UCSF meeting, as well as one week before and after this meeting, on all of the Hawaiian Islands. Reservations at the group rate can be made by using the CV number listed above.

The Big Island of Hawaii
The Big Island is the birthplace of King Kamehameha 1, the leader who united all of the Hawaiian islands by 1810. The Big Island is the anchor of the island chain and home of Madame Pele, the fire goddess of volcanoes; therefore the color ascribed to the Big Island is red. The Island of Hawaii is the largest and youngest island in the Hawaiian chain, and with the current volcanic activity, the Big Island is still growing.

The sunny and dry west side of the island is referred to as Kona, and the transformation of its shoreline by volcanic eruptions just two-hundred years ago is still evident. The misty east side of the island is referred to as Hilo -- which is a prime growing area for flowers, plants and vegetation, includes many waterfalls, and is home to Hawaii Volcanoes National Park.

The Big Island has one of the world’s most active volcanoes (Kilauea), the tallest sea mountain in the world at more than 33,000 feet (Mauna Kea), and the most massive mountain in the world (Mauna Loa). Hawaii’s varying and dramatic climate zones generate a world of environments on one island, including lush rain forests, volcanic deserts, snow-capped mountaintops and beautiful black sand beaches.

Activities and Tours
[www.gohawaii.com/big-island](http://www.gohawaii.com/big-island)
- Circle the Big Island Tour
- Volcanoes National Park (Kilauea)
- Place of Refuge National Park
- Mauna Kea Summit and Observatory
- Snorkel and Scuba Excursions
- Manta Ray Snorkel (nightime)
- Catamarans and Sunset Sailing
- Luau Dinner Buffet and Hula/Fire-knife Show
- Waterfall, Valley and Beach Tours
- Kayak “Flumin’ the Ditch” excursion
- Helicopter Tours
- Horse Back Riding
- Whale Watch
- Submarine Tours
- Jeep / ATV Tours
- Coffee Plantations
REGISTRATION

NEURO & MUSCULOSKELETAL IMAGING (RAD17 022)

February 12-17, 2017 / Fairmont Orchid, Kona
Early Enrollment Deadline: Friday, December 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 http://meded.ucsf.edu/cme
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

month  day  year

COURSE REGISTRATION

By 12/16/16  After 12/16/16  Loyalty Discount applies only to live courses attended (not home-study)

○ $1,125  ○ $1,200  Standard Registration  no UCSF Rad paid course 2016 cal year

○ $1,005  ○ $1,080  Silver Status 10% discount  1 UCSF Rad paid course 2016 cal year

○ $  885  ○ $  960  Gold Status 20% discount  2 UCSF Rad paid courses 2016 cal year

○ $  765  ○ $  840  Platinum Status 30% discount  3 UCSF Rad paid courses 2016 cal year

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. 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.

Cancellation  A refund of the enrollment fee, less $75, will be made upon receipt of a written request only by Friday, January 27, 2017. No refunds will be made after this date.