Neuro and Musculoskeletal Imaging
February 9–14, 2020

Fairmont Orchid Resort & Spa
Kohala Coast, Big Island of Hawaii

CME Credits: 25 / SAM Credits: 23.75

https://radiology.ucsf.edu/cme
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.

The presentations will review indications that are commonly seen in general practice, for which the faculty will address updates to improve image acquisition and interpretation strategies. This in turn will improve communication when referring cases to clinical and academic specialists.

Neuroradiology topics to be addressed include routine conditions in stroke, brain tumors, traumatic injuries, and various infectious and inflammatory neurological conditions.

Musculoskeletal imaging will include review of presentations in the major joints, an introduction to musculoskeletal ultrasound, bone marrow and tumors, and inflammatory arthropathies.

Self-Assessment (SAM) Credits
This course will offer 23.75 Self-Assessment credits (pending approval and subject to change): 12.0 in Musculoskeletal and 11.75 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. For more information: www.theabr.org

Course Objectives
At the completion of this course, the attendee should be able to:

1. Improve imaging protocols for brain, head & neck, spine, nerve and musculoskeletal CT/MR imaging;
2. Recognize specific imaging features of infection, trauma, tumors, and inflammatory disorders in the head & spine, and communicate key findings enabling rapid pathological classification.
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 bone biopsy and radiofrequency ablation technique;
7. Sharpen evaluation of muscle and tendon abnormalities;
8. Identify important imaging characteristics of bone tumors;
9. Recognize the key technical considerations for musculoskeletal ultrasound, and how ultrasound can be used to diagnose musculoskeletal disorders;
10. Understand advances in stroke management and their impact on imaging;
11. Develop strategies for evaluating common and uncommon abnormalities in the brain and spine.

UCSF Faculty
Rina P. Patel, MD
Course Co-Chair
Assistant Professor of Clinical Radiology

Jason F. Talbott, MD, PhD
Course Co-Chair
Associate Professor of Radiology
Associate Director, Radiology Residency Program

Soonmee Cha, MD
Professor of Clinical Radiology
Vice-Chair for Education
Associate Director, Radiology Residency Program

Thomas M. Link, MD, PhD
Professor of Radiology
Chief of Musculoskeletal Imaging

Lynne S. Steinbach, MD
Professor Emeritus of Radiology

David M. Wilson, MD, PhD
Associate Professor of Radiology
Chief of Neuroradiology, SF VAMC

Registration
https://meded.ucsf.edu/cme
Pre-registration is encouraged to ensure your space in this course.
Pre-register by December 13, 2019 and save $75 on your enrollment fee.

Tuition $1,295 for all medical professionals; registration discounts are available for qualifying attendees, please review the registration form on the last page.

On-site Registration
Sunday, February 9, 2020 at 7:00 am
The Fairmont Orchid Resort
1 North Kaniku Drive, Kamuela

Syllabus You must provide an email address with your registration to receive advance syllabus information, which will be distributed electronically prior to the course. A paper notebook for taking notes will be provided onsite.
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SUNDAY, February 9, 2020

7:00 am  Registration and Continental Breakfast
7:30  Update on Stroke Imaging ................................................................. Jason F. Talbott, MD, PhD
8:15 Craniofacial Trauma: What the Surgeon Wants to Know .......... Jason F. Talbott, MD, PhD
9:00 Cysts and Hydrocephalus ................................................................. David M. Wilson, MD, PhD
9:45 Recess
10:00 Facial Symptoms in Neuroradiology .............................................. David M. Wilson, MD, PhD
10:45 Pearls & Pitfalls in Traumatic Brain Injury .................................. Jason F. Talbott, MD, PhD
11:30 Spinal Inflammation and Infection .................................................. David M. Wilson, MD, PhD
12:00 pm  Spinal Cord Infections: a Pattern-Based Approach.............. Jason F. Talbott, MD, PhD
12:30 Questions & Discussion
12:45 Adjourn

MONDAY, February 10, 2020

7:00 am  Continental Breakfast
7:30 Intracranial Infections ........................................................................ David M. Wilson, MD, PhD
8:00 Intracranial Hemorrhage .................................................................. David M. Wilson, MD, PhD
8:45 Update on Brain Tumor Imaging ...................................................... Soonmee Cha, MD
9:45 Recess
10:00 Imaging of Post-therapy Brain Tumors ......................................... Soonmee Cha, MD
10:45 Brain Tumor Mimics: Six Key Imaging Features ......................... Soonmee Cha, MD
11:45 Rapid Fire Cases: Top Head & Neck Emergencies ...................... Jason F. Talbott, MD, PhD
12:30 pm  Questions & Discussion
12:45 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 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 4.75 in CT, 18.0 in MR, and 1.0 in Ultrasound.

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

All lectures will include Self-Assessment Credit (SAMs).
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TUESDAY, February 11, 2020
7:00 am  Continental Breakfast
7:30  Alphabet Soup of Spine Trauma: SLIC, TLICS and More......................... Jason F. Talbott, MD, PhD
8:15  Spine Tumors .................................................................................... Soonmee Cha, MD
9:00  CNS Vasculopathies .......................................................................... Soonmee Cha, MD
9:45  Recess
10:00  Elbow: Ligaments and Tendons ....................................................... Lynne S. Steinbach, MD
10:30  MR of Shoulder Instability & Rotator Cuff ........................................ Rina P. Patel, MD
11:15  Biceps Tendon .................................................................................. Lynne S. Steinbach, MD
11:45  High Yield MR Wrist & Hand .......................................................... Rina P. Patel, MD
12:30 pm  Questions & Discussion
12:45  Adjourn

THURSDAY, February 13, 2020
7:00 am  Continental Breakfast
7:30  Bone Tumors ...................................................................................... Thomas M. Link, MD, PhD
8:15  Knee Menisci: Pearls & Pitfalls ............................................................ Lynne S. Steinbach, MD
9:00  MRI of Knee Ligaments ................................................................. Rina P. Patel, MD
9:45  Recess
10:00  Inflammatory Arthropathies ........................................................... Thomas M. Link, MD, PhD
10:45  MSK Ultrasound: Part 1 .............................................................. Rina P. Patel, MD
11:15  MSK Ultrasound: Part 2 .............................................................. Rina P. Patel, MD
11:45  Imaging of Bone Marrow .............................................................. Thomas M. Link, MD, PhD
12:30 pm  Questions & Discussion
12:45  Adjourn

FRIDAY, February 14, 2020
7:00 am  Continental Breakfast
7:30  Imaging of the Ankle ........................................................................ Thomas M. Link, MD, PhD
8:15  MRI of the Young Adult Hip ............................................................. Rina P. Patel, MD
9:00  Anterior Cruciate Ligament, Including Post-Op Assessment .......... Lynne S. Steinbach, MD
9:45  Recess
10:00  Bone Biopsies and RFA .............................................................. Thomas M. Link, MD, PhD
10:30  MRI of the Knee: Patellofemoral Pain ........................................... Rina P. Patel, MD
11:15  Post-Operative Shoulder ............................................................. Lynne S. Steinbach, MD
12:00  Musculoskeletal Imaging: Case Review ........................................ Lynne S. Steinbach, MD
12:30 pm  Questions & Discussion
12:45  Adjourn
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. Kona airport code = KOA. https://airports.hawaii.gov/koa

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<th>Airline</th>
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<td>Delta</td>
<td>NY2VB</td>
<td>800–328–1111</td>
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<td>United</td>
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<td>Hawaiian</td>
<td>AMUCSFREP</td>
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Car Rental
www.hertz.com / CV# 01SY0266 / 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 I, 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 its 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.

Airport Transfers
877-242-5777 / reservations@speedishuttle.com
Book online [http://hgts.co/1/PCYI47](http://hgts.co/1/PCYI47)
Per person rate: $33.80 one way, $67.60 round trip.
SpeediShuttle provides shared ride airport transportation in Mercedes shuttles between the Kona Airport and the Fairmont Orchid. Guests with pre-arranged arrival reservations will be met by their driver at the baggage claim area, then directed to their shuttle. Vehicle amenities include complimentary Wi-Fi, 6'1” headroom, three-point seat restraints, adjustable head-rests and roomy comfortable seats. Drive time approximately 30 minutes.

Activities and Tours
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 AND MUSCULOSKELETAL IMAGING (RAD20 022)
February 9-14, 2020 / Fairmont Orchid, Kona
Early Enrollment Deadline: Friday, December 13, 2019

Four easy ways to register:
1. Mail this form to UCSF Office of CME, 3333 California St - Suite 450, SF CA 94118
2. Phone using Visa, Amex or Mastercard. 415−476−5808, 8:30 am - 4:00 pm (Pacific Time)
3. Online at https://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: _______ / _______ / XXXX

COURSE REGISTRATION

By 12/13/19 After 12/13/19 Loyalty Discount applies only to live courses attended (not self-study)
☒ $1,225 ☑ $1,295 Standard Registration no UCSF Rad paid course 2019 cal year
☒ $1,095 ☑ $1,170 Silver Status 10% discount 1 UCSF Rad paid course 2019 cal year
☒ $ 965 ☑ $1,040 Gold Status 20% discount 2 UCSF Rad paid courses 2019 cal year
☒ $ 835 ☑ $ 910 Platinum Status 30% discount 3 UCSF Rad paid courses 2019 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 $100, will be made upon receipt of a written request only by Friday, January 10, 2020. No refunds will be made after this date.