

Current Concepts and Hot Topics in **NEURO AND MUSCULOSKELETAL IMAGING**

FEBRUARY 8–13, 2015

This course will provide the clinician with an update on various fundamentals of Neuro and Musculoskeletal imaging. The program will emphasize CT and MR, as well as other methods to improve imaging quality. The latest information on recent advances in neuro CT/MRI protocols and advanced MRI techniques will be presented, in order to improve differential diagnosis of both the adult and pediatric brain, head & neck, spine and spinal cord lesions and musculoskeletal system.

Case-based lectures and short, concise “hot topic” presentations will highlight pediatric neuroradiology, trauma, adhesive capsulitis, pectoralis injuries, metal around the hip, musculoskeletal biopsies and radiofrequency ablation. Specific imaging strategies for solving common and challenging clinical problems will be discussed. Each day will conclude with the opportunity for questions and discussion with the faculty.

This course will offer **7.25 Self-Assessment credits**: 2.75 in neuro and 4.5 in musculoskeletal. 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.

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

1. Identify specific imaging features of adult and pediatric neurological conditions, such as vascular malformations, CSF pressure disorders, infections, seizures and brain anomalies;
2. Understand adult spine pain management procedures and pediatric spine disorders;
3. Apply advanced MR techniques to clinical neuroimaging, including diffusion MRI, fast MRI, SWI and fetal MRI;
4. Recognize normal anatomy and pathology related to MRI of the major musculoskeletal joints;
5. Implement the newest cartilage imaging sequences and utilize metal suppression for orthopedic hardware;
6. Perform emerging MSK techniques such as shoulder ultrasound and MR evaluation of peripheral neuropathies;
7. Differentiate between internal derangement and normal postoperative imaging appearances of the shoulder and knee;
8. Recognize benign processes that can appear malignant in the musculoskeletal system.





UCSF Faculty

Orit A. Glenn, MD

Course Co-Chair

Professor of Radiology

Lynne S. Steinbach, MD

Course Co-Chair

Professor of Radiology and
Orthopaedic Surgery

William P. Dillon, MD

Professor and Vice-Chair of Radiology
Chief, Neuroradiology

Pratik Mukherjee, MD, PhD

Professor of Radiology

Daria Motamedi, MD

Assistant Professor of Clinical Radiology

Guest Faculty

Christine B. Chung, MD

Professor of Radiology
UC San Diego School of Medicine

Enrollment

Pre-registration is encouraged to ensure your space in this course.

Pre-register by December 13, 2014 and save \$75 on your enrollment fee.

TUITION \$1200 for all medical professionals; registration discounts are available for qualifying attendees, please review the registration form on page 15.

ON-SITE REGISTRATION

Sunday, February 8, 2015 at 7:00 am

The Fairmont Orchid, Hawaii – 1 North Kaniku Drive, Kohala Coast

SYLLABUS An electronic syllabus and paper notebook will be provided onsite. Printable PDFs of presentations will be available online one week prior to the course, so attendees can print out and bring pertinent presentations with them.

You must provide an email address with your registration to receive advance syllabus information. Paper copies of presentations will not be provided onsite.

FEBRUARY COURSE PROGRAM

SUNDAY, FEBRUARY 8, 2015

7:00 am	Registration and Continental Breakfast	
7:30	Imaging of Phakomatoses	Orit A. Glenn, MD
8:15	Vascular Malformations and Dural AVFs of the CNS	William P. Dillon, MD
9:00	<i>Hot Topic:</i> Imaging of Premature Neonates	Orit A. Glenn, MD
9:20	<i>Hot Topic:</i> Susceptibility Weighted Imaging: Black is Bad	William P. Dillon, MD
9:40	Questions and Discussion	
9:45	Recess	
10:00	MRI of Shoulder Instability	Lynne S. Steinbach, MD
10:45	Rotator Cuff and Impingement Syndromes	Christine B. Chung, MD
11:30	SAM MRI of the Post-operative Shoulder	Lynne S. Steinbach, MD
12:30 pm	Questions and Discussion	
12:45	Adjourn	

MONDAY: FEBRUARY 9, 2015

7:00 am	Continental Breakfast	
7:30	Foot MRI	Lynne S. Steinbach, MD
8:15	Ankle MRI: Ligaments	Christine B. Chung, MD
9:00	Knee Menisci: Pearls and Pitfalls	Lynne S. Steinbach, MD
9:40	Questions and Discussion	
9:45	Recess	
10:00	Fetal MRI: the Basics	Orit A. Glenn, MD
10:45	SAM Imaging of Seizures	Pratik Mukherjee, MD, PhD
11:45	<i>Hot Topic:</i> Imaging of Concussions	Pratik Mukherjee, MD, PhD
12:15 pm	Questions and Discussion	
12:30	Adjourn	

TUESDAY, FEBRUARY 10, 2015

7:00 am	Continental Breakfast	
7:30	<i>Hot Topic:</i> the Throwing Elbow	Lynne S. Steinbach, MD
8:00	SAM MRI of the Peripheral Nerves and Entrapment Syndromes	Christine B. Chung, MD
9:00	Musculoskeletal Pseudo-tumors	Lynne S. Steinbach, MD
9:40	Questions and Discussion	
9:45	Recess	
10:00	CNS Infections	William P. Dillon, MD
10:45	Interesting Neuro Cases: Adult White-Matter Lesions	William P. Dillon, MD
11:30	<i>Hot Topic:</i> Fetal MRI: Practical Approach to Common Pathologies	Orit A. Glenn, MD
11:55	<i>Hot Topic:</i> Vascular Malformations	Orit A. Glenn, MD
12:15 pm	Questions and Discussion	
12:30	Adjourn	

WEDNESDAY, FEBRUARY 11, 2015

No formal program

NEURO & MUSCULOSKELETAL IMAGING

THURSDAY, FEBRUARY 12, 2015

7:00 am	Continental Breakfast	
7:30	SAM Patellofemoral Pain Syndrome: Imaging Review	Daria Motamedi, MD
8:15	MRI of Articular Cartilage	Christine B. Chung, MD
9:00	SAM Imaging of ACL Reconstruction and Complications	Daria Motamedi, MD
9:40	Questions and Discussion	
9:45	Recess	
10:00	State-of-the-Art Perfusion MRI	Pratik Mukherjee, MD, PhD
10:45	SAM Pediatric Spine	Orit A. Glenn, MD
11:45	Interesting Cases: Pediatric White Matter	Pratik Mukherjee, MD, PhD
12:15 pm	Questions and Answers	
12:30	Adjourn	

FRIDAY, FEBRUARY 13, 2015

7:00 am	Continental Breakfast	
7:30	SAM Disorders of CSF Pressure	William P. Dillon, MD
8:15	State-of-the-Art: Diffusion MRI	Pratik Mukherjee, MD, PhD
9:00	<i>Hot Topic:</i> Spine Pain Procedures	William P. Dillon, MD
9:20	<i>Hot Topic:</i> Fast / Super-Fast MRI	Pratik Mukherjee, MD, PhD
9:40	Questions and Discussion	
9:45	Break	
10:00	SAM High Resolution MRI of the Wrist with Arthroscopic Correlation	Daria Motamedi, MD
10:45	<i>Hot Topic:</i> Metal Around the Hip	Christine B. Chung, MD
11:05	SAM <i>Hot Topic:</i> Femoroacetabular Impingement	Daria Motamedi, MD
11:25	Finger Imaging	Christine B. Chung, MD
12:15 pm	Questions and Discussion	
12:30	Adjourn	

Accreditation Neuro & Musculoskeletal Imaging

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 **24.0 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 0.75 in CT and 22.0 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.



*Caldera Crater, Kilauea
Volcanoes National Park*



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.



*Rainbow Falls
Wailuku River, Hilo*



*King Kamehameha 1
original statue in Kapa'au*

Activities and Tours

www.gohawaii.com/big-island

- Helicopter Tours
- Whale Watch
- Circle Island Tour
- Volcanoes National Park (Kilauea)
- Puuhonua O Honaunau National Park (Place of Refuge)
- Mauna Kea Summit and Observatory
- Horse Back Riding
- Submarine Tours
- Snorkel and Scuba Excursions
- Manta Ray Snorkel (nighttime)
- Catamarans and Sunset Sailing
- Luau Dinner Buffet and Hula/Fire-knife Show
- Waterfall, Valley and Beach Tours
- Kayak "Flumin' the Ditch" excursion
- Jeep / ATV Tours
- Coffee Plantations



Hotel Reservations

Call Toll Free: 800-845-9905

To ensure the conference rates on the next page, you must make your reservation with the hotel directly, using the phone number above or weblink listed below.

BODY IMAGING: JAN 18–23

Reservation deadline: Tue. Dec. 16, 2014

Or reserve online [https://](https://resweb.passkey.com/go/ucsfbody0115)

resweb.passkey.com/go/ucsfbody0115

NEURO & SKELETAL: FEB 8–13

Reservation deadline: Wed., Jan. 14, 2015

Or reserve online [https://](https://resweb.passkey.com/go/ucsfneuro0215)

resweb.passkey.com/go/ucsfneuro0215



The Fairmont Orchid, Hawaii

www.fairmont.com/orchid

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.



The Fairmont Orchid

Tel: **800-845-9905 / 808-885-2000**
www.fairmontorchid.com
 1 N. Kaniku Drive, Kohala Coast, Hawaii

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.

Join the Fairmont President's Club (free) *prior to arrival* to **receive complimentary in-room internet** during your stay (\$15 per day). Log onto: www.fairmont.com/fpc

AVAILABLE CATEGORIES (no additional resort fee)
Note that availability of ocean view rooms and suites are limited.

Single/Double Fairmont Room	\$318
Partial Ocean View	\$363
Guaranteed Ocean View	\$385
Garden View Executive Suite	\$615
Ocean View Executive Suite	\$715
Ocean Front Suite	\$869
ADD-ONS (per room, per night)	
Second "Family" Room	\$275
Additional adult (3rd person)	\$ 75

Make your reservation early as rooms will likely sell-out before the cut-off date listed above, you must mention the UCSF meeting to receive the rates listed above. Reservation requests made after these deadlines will be extended at the conference rates on a space-available basis only. A credit card number is required to guarantee your reservation.

Rates exclude state hotel room tax of 13.416% (subject to change). Reservations cancelled at least 30 days prior to arrival will incur no cancellation charges; between 29 and 3 days prior to arrival will be charged a two-nights stay (plus taxes); less than 72 hours prior to arrival and no-shows will be charged five-nights stay (plus taxes). There is no additional charge for children under the age of 18 who share with their parents. The maximum number of persons per room is 3 adults or 2 adults with 2 children. Daily parking rates for 2014 are \$17 for self parking, \$22 for valet (rates subject to change for 2015).



Air Travel

UCSF Radiology has negotiated fare discounts of up to 5% off coach fare and 10% off first class with United, Delta and Hawaiian Airlines for radiology course attendees. Please book online or call the meetings desk directly, using the codes below.

Airport code = KOA. Website = <http://hawaii.gov/koa>

<i>Airline</i>	<i>Contact</i>	<i>Code</i>
Delta	www.delta.com 800-328-1111	NMJNW
United	www.united.com 800-521-4041 (\$25 booking fee via phone)	ZSN9112526
Hawaiian	800-367-5320	AMUCSFRPE

Book your flight with Hawaiian Airlines online using the UCSF Radiology Preferred Affiliate weblink: www.hawaiianair.com/affiliate/affiliate.aspx?affcode=AMUCSFRPE

When you book online using the full Preferred Affiliate weblink, Hawaiian will waive the fee for a second checked bag *in addition* to the fare discount.

Rental Cars

Hertz 800-654-2240 or www.hertz.com

CV# 01SY0259 Body Imaging / Neuro & Skeletal

Arrangements have been made with Hertz Car Rental for special rates during these UCSF meetings, as well as one week before and after this meeting, on all of the Hawaiian Islands. Advance reservations are recommended. Call the Hertz Convention Desk; be sure to tell the agent the meeting name and CV# listed above.





REGISTRATION

Four easy ways to register:

1. **Online** at www.cme.ucsf.edu
2. **Fax** this form to 415-502-1795
3. **Mail** this form to: UCSF Office of CME,
PO Box 45368, SF, CA 94145-0368
4. **Phone** using Visa, Amex or MC, 415-476-5808,
8:30 am - 4:00 pm (Pacific time)

BODY IMAGING

January 18–23, 2015 (RAD15 018)

By 11/21/14 After 11/12/14 Loyalty Discount applies only to **live** courses attended

Standard Registration	1 UCSCF Rad pd course 2013 cal yr
1 UCSCF Rad pd course 2013 cal yr	1 UCSCF Rad pd course 2013 cal yr
2 UCSCF Rad pd courses 2013 cal yr	2 UCSCF Rad pd courses 2013 cal yr
3+ UCSCF Rad pd courses 2013 cal yr	3+ UCSCF Rad pd courses 2013 cal yr

January discount only: also attending Breast Imaging Jan 11-16 2015 - \$100

Daily Fee: ☐ 1/18 Sun ☐ 1/19 Mon ☐ 1/20 Tue
(no discounts, cancellation policy applies)

NEURO & MUSCULOSKELETAL

February 8–13, 2015 (RAD15 022)

By 12/12/14 After 12/12/14 Loyalty Discount applies only to **live** courses attended

	Standard Registration	No UCSF Rad pd course 2013 cal yr
○ \$1,125	○ \$1,200	1 UCSF Rad pd course 2013 cal yr
○ \$1,005	○ \$1,080	2 UCSF Rad pd courses 2013 cal yr
○ \$885	○ \$960	3+ UCSF Rad pd courses 2013 cal yr
○ \$765	○ \$840	

Daily Fee: ○ 2/8 Sun ○ 2/9 Mon ○ 2/10 Tue
\$300 per (no discounts, cancellation policy applies)

REGISTRANT INFORMATION (PLEASE PRINT)

Name		
	First	Last
	Degree	

Address _____

Tel. _____
Area code _____

Fax _____
Area code _____

E-mail

You must provide an email address with your registration 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: _____ / _____
month day / XX

METHOD OF PAYMENT

METHOD OF PAYMENT

☐ Check, payable to UC Regents.

☐ Visa ☐ Mastercard ☐ American Express

Card No. _____

Exp. Date _____ Signature _____

Cancellation A refund of the enrollment fee, less \$75, will be made upon receipt of a written request only (fax or email), no refunds will be made after these dates:

Jan Body deadline: Fri, Jan 2, 2015
Feb Neuro-Skel deadline: Fri, Jan 23, 2015

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.