UCSF Neuro and Musculoskeletal Imaging
February 6–11, 2022
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 an imaging overview of neuroradiological emergencies, head & neck tumor staging, temporal bone, neurodegenerative disorders, spinal tumors, post-operative spine imaging, and advanced imaging techniques including MR neurography, fMRI, and DTI. 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): 12.75 in Abdominal, 7.5 in Thoracic, and 2.25 in Non-interpretive Skills. 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. Recommend CT/MR protocols for brain, head & neck, spine, nerve and musculoskeletal 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 of the major musculoskeletal joints, brain, head & neck and spine as evaluated on MRI;
4. Recognize internal derangement and post-operative appearances of the shoulder, elbow, wrist, hip, knee, ankle and foot;
5. Implement utilization of diagnostic musculoskeletal ultrasound, ultrasound-guided musculoskeletal procedures and common joint injections;
6. Identify important imaging characteristics of infection, bone and soft-tissue tumors;
7. Understand advanced neuroimaging techniques including fMRI, DTI, and MR neurography;
8. Develop strategies for evaluating common and uncommon abnormalities in the brain and spine.

UCSF Faculty
Matthew D. Bucknor, MD
Course Co-Chair
Associate Professor of Clinical Radiology
Vinil N. Shah, MD
Course Co-Chair
Associate Professor of Clinical Radiology
Chief of Neuroradiology
Kevin C. McGill, MD, MPH
Assistant Professor of Clinical Radiology
Leo P. Sugrue, MD, PhD
Associate Professor of Radiology
Christine M. Glastonbury, MBBS
Professor of Clinical Radiology, and of Otolaryngology, Head & Neck Surgery and Radiation Oncology
Lynne S. Steinbach, MD
Professor Emeritus of Radiology

Guest Faculty
Ramya Srinivasan, MD
Radiologist, Wilcox Medical Center
Kauai, Hawaii

Registration
https://cme-reg.configio.com/pd/792/returncom=productlist
Pre-registration is encouraged to ensure your space in this course. Pre-register by December 10, 2021 and save $100 on your enrollment fee.

Tuition
$1,195 for all medical professionals.

On-site Registration
Sunday, February 6, 2022 at 6:30 am
The Fairmont Orchid Resort - Kona, Hawaii

Syllabus
You must provide an email address with your registration to receive advance syllabus information, which will be distributed electronically prior to the course.
Course Program  page 1 of 2

SUNDAY February 6, 2022 / Musculoskeletal

7:00 am Registration and Breakfast
7:30  The Throwing Elbow ................................................................. Matthew D. Bucknor, MD
8:15  The Throwing Shoulder .............................................................. Lynne S. Seinbach, MD
9:00  MRI of the Wrist ........................................................................ Ramya Srinivasan, MD
9:45  Recess
10:00  Radiographic Checklist for Hip Impingement ............................ Matthew D. Bucknor, MD
10:35  MRI of the Post-Operative Shoulder ......................................... Lynne S. Seinbach, MD
11:10  Hip Ultrasound Made Easy ..................................................... Ramya Srinivasan, MD
11:45  The Other Hip Impingements ................................................... Matthew D. Bucknor, MD
12:30 pm Questions and Discussion
12:45  Adjourn

MONDAY February 7, 2022 / Musculoskeletal

7:00 am Breakfast
7:30  Shoulder Instability ................................................................. Lynne S. Seinbach, MD
8:15  Ankle MRI: Tendons and Ligaments ....................................... Ramya Srinivasan, MD
9:00  Osseous Infectious Dilemmas ................................................ Matthew D. Bucknor, MD
9:45  Recess
10:00  Common MSK Joint Injections ............................................. Kevin C. McGill, MD, MPH
10:35  Knee Menisci: Pearls and Pitfalls ........................................... Lynne S. Seinbach, MD
11:10  Arthroplasty Complications .................................................. Kevin C. McGill, MD, MPH
11:45  Calcific Tendinitis and Ultrasound-Guided Barbotage ................. Ramya Srinivasan, MD
12:30 pm Questions and 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 25.0 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 4.25 in CT, 18.25 in MR, and 1.25 in US.

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

All didactic lectures will include Self-Assessment Questions (SAMs).
## TUESDAY February 8, 2022 / Musculoskeletal and Neuro

- **7:00 am** Breakfast
- **7:30** Imaging of Soft Tissue Tumors .................................................... Kevin C. McGill, MD, MPH
- **8:15** Tumor Update ................................................................. Matthew D. Bucknor, MD
- **9:00** Shoulder MRI: Pearls and Pitfalls ............................................................. Lynne S. Seinbach, MD
- **9:45** A Strategic Approach to US guided biopsies ....................................... Kevin C. McGill, MD, MPH
- **10:00** Recess
- **10:15** Spine Nomenclature and Disc Disease ............................................... Vinil N. Shah, MD
- **11:00** Spaces in the Head & Neck ................................................................. Christine M. Glastonbury, MBBS
- **11:45** Imaging Approach to Myelopathy ......................................................... Vinil N. Shah, MD
- **12:30 pm** Questions & Discussion
- **12:45** Adjourn

### Wednesday February 9, 2022
No formal course program.

## THURSDAY February 10, 2022 / Neuro

- **7:00 am** Breakfast
- **7:30** Spine Tumors: How to Tell Them Apart ............................................... Vinil N. Shah, MD
- **8:15** Neuroradiology Emergencies ............................................................... Leo P. Sugrue, MD, PhD
- **9:00** Staging Tumors in the Head & Neck .................................................... Christine M. Glastonbury, MBBS
- **9:45** Recess
- **10:00** Neurodegenerative Diseases .............................................................. Leo P. Sugrue, MD, PhD
- **10:45** Cervical Nodes ..................................................................................... Christine M. Glastonbury, MBBS
- **11:30** Midline Lesions: Pituitary and Pineal ................................................... Leo P. Sugrue, MD, PhD
- **12:00** Unknown Primary Tumors ................................................................... Christine M. Glastonbury, MBBS
- **12:30 pm** Questions & Discussion
- **12:45** Adjourn

## FRIDAY February 11, 2022 / Neuro

- **7:00 am** Breakfast
- **7:30** Temporal Bone: Hearing Loss and Vertigo ........................................... Leo P. Sugrue, MD, PhD
- **8:15** Practical Brachial & Lumbar Plexus Imaging ....................................... Vinil N. Shah, MD
- **9:00** Advanced Imaging: fMRI and Diffusion/DTI ........................................ Leo P. Sugrue, MD, PhD
- **9:45** Recess
- **10:00** Vocal Cord Paralysis ............................................................................ Christine M. Glastonbury, MBBS
- **10:45** CSF Hypotension: Finding and Fixing that Elusive Leak ..................... Vinil N. Shah, MD
- **11:30** Trigeminal Neuralgia & Neuropathy ..................................................... Christine M. Glastonbury, MBBS
- **12:00 pm** Postoperative Imaging of the Spine ..................................................... Vinil N. Shah, MD
- **12:30** Questions & Discussion
- **12:45** Adjourn
The Fairmont Orchid - www.fairmont.com/orchid
Tel: 800–845–9905 / 808–885–2000 / 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.

Note that availability of ocean view rooms and suites are limited.

$365  Single/Double Fairmont Room  $695  Garden View Executive Suite
$420  Partial Ocean View  $800  Ocean View Executive Suite
$445  Guaranteed Ocean View  $975  Ocean Front Suite

Reduced daily resort charge of $25 for UCSF attendees who register through the group block (normally $35), which includes: on-ground basic internet, self-park for one vehicle, one-hour daily snorkel rental for two, cultural activities, property shuttle service, 10% discount on luau bookings (published pricing).

Join the Fairmont Le Club Accor (free) prior to arrival to receive an upgrade to premium speed internet during your stay. Log onto: https://all.accor.com/loyalty-program/reasonstojoin/index.en.shtml

Make your reservation early as rooms will likely sell-out before the cut-off date, 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 14.962% (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 a five-nights stay (plus taxes). In addition to the nightly room-rate, registrants are liable for any hotel taxes, fees, porterage, gratuities and applicable guestroom charges upon check-out.

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. Third adult charge is $75 per night (includes optional roll-away). Self-park is included in the resort charge, valet is an additional $10 per night.

Resort Highlights
- 36-hole Francis H. Brown coastal golf course
- Spa Without Walls with oceanside cabanas and massage services
- indoor spa treatments and sauna
- 24/7 fitness center access
- children’s dining menus; and full- & half- day activity programs
- plexipave tennis courts

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 United and Hawaiian Airlines for radiology course attendees.
Kona airport code = KOA. [https://airports.hawaii.gov/koa](https://airports.hawaii.gov/koa)
Travel Requirements [https://hawaiicovid19.com/travel](https://hawaiicovid19.com/travel)

United
ZK47190520 800–426–1122

Hawaiian
AMUCSFRPE 800–367–5320

Airport Transfers
877-242-5777 / reservations@speedishuttle.com
Per person rate: $36.68 one way.

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.

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 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

UCSF NEURO AND MUSCULOSKELETAL IMAGING (MRD22022)
February 6-11, 2022 / Fairmont Orchid Resort
Early Enrollment Deadline: Friday, December 10, 2021

Easy ways to register:
2. Phone 415-476-5808 from 8:00 am to 4:00 pm Pacific Time.
3. Mail this form to: UCSF Office of CME, 490 Illinois St - Floor 8, SF CA 94143-0742

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

COURSE REGISTRATION FEE

By 10-Dec-21 After 11-Dec-21
☐ $1,095     ☐ $1,195

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 7, 2022. No refunds will be made after this date.