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SOUTHERN CALIFORNIA RESIDENCY AND FELLOWSHIP PROGRAMS

Radiation Oncology

Los Angeles Medical Center

Welcome to the Residency Training Program in Radiation Oncology at the Kaiser Permanente Los Angeles Medical Center. Here you will encounter a superior educational environment that includes direct patient responsibility and a large and varied patient base. You will also benefit from the exceptional supervision of our 20 clinically-based, physician faculty.

The 613-bed Los Angeles Medical Center (LAMC) serves as a referral center for more than 2.5 million Kaiser Permanente members throughout Southern California. LAMC is the major tertiary care facility for Kaiser Permanente Oncology specialties and subspecialties. The Medical Center also maintains an active teaching program in all major medical and surgical subspecialty services.

Kaiser Permanente LAMC is one of the affiliated teaching hospitals of the UCLA School of Medicine. Students and residents from UCLA, USC and other institutions routinely rotate through our hospital. Many members of our medical staff serve on the UCLA and USC teaching faculty. Kaiser Permanente is among the nation's largest and most highly regarded managed care organizations (one in four insured Californians is a Kaiser Permanente Health Plan member). As a member of our residency program, you will learn to practice cost-effective, yet caring medicine—an approach indispensable to providing quality health care in all future medical settings.

Kenneth Lodin, MD
Program Director

The Program

The Kaiser Permanente Radiation Oncology Department is academically oriented and dedicated to delivering high-quality patient care. The department is the largest in California and one of the largest in the nation. In this department all types and stages of malignancies are seen with a high percentage being curative treatment. We see approximately 8,000 patients in consultation and 7,000 follow-up cases per year.

Residents function as a critical part of the medical team during PGY-2 through PGY-5 years. A minimum of 42 months will be spent in the department and there is time available for electives.

These four years include progressively increasing responsibility in all phases of clinical oncology. The resident is assigned patients who are evaluated for treatment by a staff physician. If treatment is indicated, both the resident and the staff physician will see the patient for planning, treatment, and follow-up. The department also has a small inpatient service for patients who require hospitalization during treatments involving interstitial or intracavitary brachytherapy.

The resident will also participate in combined clinics where specialists from radiation, surgery and medical oncology come together to examine patients and discuss their care. The Radiation Oncology Department co-sponsors rectal, breast, gynecologic oncology,

neurosurgery, urology, and head and neck clinics with other departments. Numerous multidisciplinary conferences are held each month as shown on the sample meeting calendar.

The resident also receives formal instruction in radiation physics, radiation biology, and medical statistics in the form of an annual lecture series. A laboratory practicum in radiation physics is also offered to give the resident practical knowledge and hands-on experience with a variety of treatment techniques, radiation dose measurement equipment, and equipment calibration procedures.

In addition to class examinations, the resident will participate in the in-service exam, written by the American College of Radiology, and the RAPHEX exam, prepared by the Radiological and Medical Physics Society. These exams are administered nationally each year and give the resident the opportunity to judge the progress of his or her education against all other residents in the same year group.

The four-year curriculum offers the resident time to participate in the department's extensive research program. The resident may choose to focus on clinical, radiation physics, or radiation biology research. It is required that this effort culminates in the presentation of the results at one or more national or international meetings, and result in a publication in an appropriate peer-reviewed journal.

Completion of this four-year ACGME-approved residency in radiation oncology will lead to qualification for Therapeutic Radiology board certification. Physicians who have completed one acceptable postgraduate year in PGY-1 are taken for entry at the PGY-2 level. Kaiser does offer a PGY-1 internship in Internal Medicine and you may apply separately to that program through the Electronic Residency Application Service (ERAS).

Equipment and Technology

We now have two Radiation Oncology facilities. The first, is a 50,000-square-foot freestanding radiation facility located in Los Angeles and the newest is a

13,100-square-foot facility located in Ontario. Between the two sites we have the following equipment:

Therapy Section

- One Varian Trilogy tri-energy plus OBI
- One Varian IX plus OBI
- Seven Varian dual energy (6 MeV and 15 MeV) linear accelerators with multiple electron capability, MLC, IMRT and online portal vision.
- One 6 MeV Varian linear accelerator.
- One dedicated IMRT SRS Novales[®] System.
- Varian high dose-rate afterloader for interstitial and intracavitary implants.
- One RT 300 Phillips orthovoltage unit.
- Variety of low dose-rate sources are available for implantation.
- Ultrasound and CT-based equipment for permanent prostate seed implants.

Planning Section

- Two Varian simulators.
- Three GE large bore CT's, dedicated to treatment planning.
- Seven ADAC precision treatment and virtual sim planning systems, two CMS Focus three-dimensional treatment planning systems and two Brainlab TPS.
- WAN connecting LAMC with Ontario using IMPAC for the Oncology Management System and ADAC for the TPS.
- Local area network connecting a number of work-stations used for treatment planning, statistical analysis of clinical data, and administrative support.

Research Section

- Tumor registry of more than 52,000 patients treated at this facility.
- Access to on-site biochemistry laboratory to support a variety of radiation biology projects, with the following instrumentation:
 - * Fully equipped tissue culture facility.
 - * Becton-Dickenson FacStarPlus sorting flow cytometer.
 - * Six centrifuges.

- * Four scintillation counters.
- * Facilities to support all types of molecular biology research, including Southern and Northern blotting, polymerase chain reaction, and immunophenotyping.

Location and Lifestyle

Kaiser Permanente LAMC is nestled at the foot of the Hollywood Hills within a mile of Griffith Park, close to the Los Angeles Zoo, Griffith Park Observatory, and the Greek Theatre. Centrally located, the Medical Center is near several major freeways, allowing for convenient access.

We believe that you deserve free time to spend with your loved ones, and in Los Angeles recreational opportunities abound. Head north on the 101 freeway, swing through Malibu Canyon, and you will find yourself at Southern California's renowned beaches; from there, Santa Barbara is a one-hour drive up the Pacific Coast Highway. The many local mountain and desert resorts, such as Lake Arrowhead and Palm Springs, are also easily accessible.

Los Angeles has many of the recreational and cultural activities of any large metropolitan city. UCLA and Westwood Village are nearby. Major theaters can be found in downtown Los Angeles, Century City, and Hollywood. The West Hollywood arts community and the fabulous shopping and dining of Beverly Hills are only 20 minutes away by car. Due west are Santa Monica and Venice, offering the recreation and relaxed lifestyle of beachside communities.

To learn more about:

- **How to apply to this program & others**
- **Our faculty and residents**
- **Available clerkships & electives**
- **The annual Residency & Fellowship Open House**

Give us a call or visit us online today!

**<http://residency.kp.org/scal>
1-877-574-0002**