

University of Maryland School of Medicine

Department of Radiation Oncology

Education



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Our program's mission is to cultivate an educational environment that provides the full spectrum of learning opportunities in clinical radiation oncology, medical physics, and radiobiology, including:

- Robust, diverse educational experiences and clinical training
- Research opportunities supported by faculty mentorship
- A multi-D approach in academic and community care settings
- A culture of high-quality and compassionate patient care
- A diverse array of technologies and clinical trials

Department Educational Training Programs

Medical Residency Program

- 4-year training program accredited by ACGME since 1973; 11 residents
- Nationally ranked for research publication productivity (16 pubs FY24)
- Well-rounded didactics and lectures in all areas of radiation oncology
- Training in EDI and engagement on the EDI Committee

Medical Physics Residency Program

- 2-year training program accredited by CAMPEP since 2012; 3 residents
- >40% of graduates are current UMSOM faculty members.

Medical Student/Undergraduate Education and Clerkships

- 70 UMSOM students shadowed through the FY24 Exploring Careers in Medicine program
- 22 in-person clerkship rotators in FY24 (over 4x more than FY22)
- 3 UMSOM summer fellows sponsored by the department in conjunction with UM OSR in FY24
- UMCP undergraduate student shadow opportunities

Dr. Nancy K. Welker Fellowship in Proton Therapy and Advanced Radiation Modalities

- 1-year training in unique patient technologies

Graduate Medical Physics Certificate Program

- 18-credit UM Graduate School certificate for physics students

Annual International Educational Events and Courses

- "Best of" Radiation Oncology Symposium (offered for past 19 years): annual review of major standard-of-care updates and technology advances
- Physics and Radiobiology Review Course (21 years): for senior residents
- Mock Orals Course (6 years): sold-out radiation oncology board study course
- Hyperthermia Therapy Practice School (2019, 2022 and 2024)
- Symposium on Practical Artificial Intelligence in Radiation Oncology (2022)

In the last 10 years >65% of medical residents transitioned into academic positions (national average <40%)

>\$12,000 of support per resident for publications, presentations, conference attendance, books or computers, and wellness

Over 15 students mentored by department faculty on research projects in FY24