

## INTRODUCTION

While you undergo radiation therapy, a team of highly trained medical professionals will be working together to make sure you receive the best care possible. A **radiation oncologist**, a doctor who specializes in using radiation to treat cancer, leads this team.



## ABOUT ASTRO

The **American Society for Therapeutic Radiology and Oncology** is the largest radiation oncology society in the world, with more than 7,500 members who specialize in treating patients with radiation therapies. As a leading organization in radiation oncology, biology and physics, the Society's mission is to advance the practice of radiation oncology by promoting excellence in patient care, providing opportunities for educational and professional development, promoting research and disseminating research results and representing radiation oncology in a rapidly evolving socioeconomic healthcare environment.

## LOCATE A CANCER SPECIALIST

If you or a family member has been diagnosed with cancer, it's important to meet with several cancer specialists, including a radiation oncologist, before deciding on the cancer treatment that is best for you, your tumor and your lifestyle. To locate a radiation oncologist in your area, please visit <http://www.astro.org/patient/>.



## FOR MORE INFORMATION

Your primary care physician and cancer treatment specialists (radiation oncologists, surgeons and medical oncologists) can provide you with more information on the disease, as well as information on finding support groups in your area.

## HELPFUL WEB SITES

**American Cancer Society**  
[www.cancer.org](http://www.cancer.org)

**National Cancer Institute**  
[www.cancer.gov](http://www.cancer.gov)

**National Coalition of Cancer Survivorship**  
[www.canceradvocacy.org](http://www.canceradvocacy.org)

**Radiation Therapy Oncology Group**  
[www.rtog.org](http://www.rtog.org)



## THE RADIATION ONCOLOGY TREATMENT TEAM

Your Partners in  
Cancer Treatment



# ASTRO

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## RADIATION ONCOLOGISTS

**Radiation oncologists** are the doctors who will oversee your radiation therapy treatments. These physicians work with the other members of the radiation therapy team to develop your treatment plan and ensure that each treatment is accurately given. Your radiation oncologist will also monitor your progress and adjust the treatment as necessary to make sure the radiation is hitting its target while minimizing side effects. Before, during and after your radiation therapy treatments, your radiation oncologists work closely with other cancer doctors, such as medical oncologists and surgeons, to maximize the radiation's effectiveness.

Radiation oncologists have completed at least four years of college, four years of medical school, one year of general medical training, and four years of residency or specialty training in radiation oncology. They have extensive training in cancer medicine and the safe use of radiation to treat disease. If they pass a special examination, they are certified by the American Board of Radiology. You should ask if your doctor is board certified.

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## RADIATION ONCOLOGY NURSES

**Radiation oncology nurses** work collaboratively with radiation oncologists and radiation therapists to care for you and your family at the time of consultation, while you are receiving treatment and during your follow-up care. They will explain the possible side effects you may experience and will describe how you can manage them. They will assess how you are doing throughout treatment and will help you cope with the changes you may experience. They will also provide support and counseling to you and your family.

Radiation oncology nurses are licensed registered nurses or licensed practical nurses. Many registered nurses in radiation therapy have additional accreditation in the specialty of oncology nursing. Advanced practice nurses, including clinical nurse specialists and nurse practitioners, have completed a Master's degree program.



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## RADIATION THERAPISTS

**Radiation therapists** work with radiation oncologists to administer the daily radiation treatment under the doctor's prescription and supervision. They maintain daily records and regularly check the treatment machines to make sure they are working properly.

Radiation therapists go through a two to four year educational program following high school or college. They take a special examination and may be certified by the American Registry of Radiologic Technologists. In addition, many states require that radiation therapists be licensed.

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## DOSIMETRISTS

**Dosimetrists** carefully calculate the dose of radiation to make sure the tumor gets enough radiation. Using computers, they develop a number of treatment plans that can best destroy the tumor while sparing the normal tissues. Since treatment plans are often very complex, dosimetrists work with the radiation oncologist and the medical physicist to choose the treatment plan that is right for you.

Many dosimetrists start as radiation therapists and then, with very intensive training, become dosimetrists. Others are graduates of one- to two-year dosimetry programs. They are certified by the Medical Dosimetrist Certification Board.

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## MEDICAL RADIATION PHYSICISTS

Qualified **medical physicists** work directly with the radiation oncologist during treatment planning and delivery. They oversee the work of the dosimetrist, and help ensure that complex treatments are properly tailored for each patient. Medical physicists are responsible for developing and directing quality control programs for equipment and procedures. Their responsibility also includes making sure the equipment works properly by taking precise measurements of the radiation beam and performing other safety tests on a regular basis.

Qualified medical physicists have doctorates or Master's degrees. They have completed at least four years of college, and then generally two to four years of graduate school. They also typically have one to two years of clinical physics training. Medical physicists are certified by the American Board of Radiology or the American Board of Medical Physics.



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## OTHER HEALTHCARE PROFESSIONALS

During your treatment, you may work with a number of other healthcare professionals while undergoing radiation therapy. These specialists ensure that all of your physical and psychological needs are met during your treatment.

### Social Workers

Social workers are available to provide a variety of supportive services to you and your family. They can provide counseling to help you and your family cope with the diagnosis of cancer and evaluate your treatment options. They may also help arrange for home health-care and other services.

### Nutritionists

Nutritionists, also called dietitians, work with patients to help them maintain nutrition during their treatments. They will help you modify your eating plan if the side effects of treatment are affecting your appetite and what you can eat, and can provide recipes, menu suggestions and information on ready-to-use nutritional supplements. They address dietary issues and current developments that may affect cancer treatment outcomes.

### Physical Therapists

Physical therapists use therapeutic exercises to ensure that your body functions properly while you are undergoing treatment. These exercises are used to help manage side effects, alleviate pain and keep you healthy.

### Dentists

Dentists may be involved in the care of patients who are receiving radiation for oral or head and neck cancers. They will help prevent the radiation from damaging the healthy areas of your mouth and oral cavity, and may recommend that you have preventive dental work prior to radiation. They will also help you manage oral complications of cancer therapy, such as dry mouth. A dental hygienist may also perform these services under the supervision of a dentist.