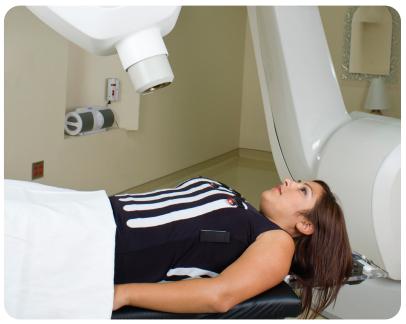
ASCO[°]answers Radiation Therapy

What is radiation therapy?

Radiation therapy is the use of high-energy x-rays or other particles to destroy cancer cells. A doctor who uses radiation therapy to treat cancer is called a radiation oncologist. The goal of radiation therapy is to destroy the cancer cells without harming nearby healthy tissue. It may be used along with other cancer treatments or as the main treatment. Sometimes radiation therapy is used to relieve symptoms, called palliative radiation therapy. More than half of all people with cancer receive some type of radiation therapy.

What are the different types of radiation therapy?

The most common type is called external-beam radiation therapy, which is radiation given from a machine located outside the body. Types of external-beam radiation therapy include proton therapy, 3-dimensional conformal radiation therapy (3D-CRT), intensity-modulated radiation therapy (IMRT), and stereotactic radiation therapy. Sometimes radiation therapy



involves bringing a radioactive source close to a tumor. This is called internal radiation therapy or brachytherapy. The type of radiation therapy you receive depends on many factors. Learn more about radiation treatment at www.cancer.net/radiationtherapy.

What should I expect during radiation therapy?

Before treatment begins, you will meet with the radiation oncologist to review your medical history and discuss the potential risks and benefits. If you choose to receive radiation therapy, you may undergo tests to plan the treatment and evaluate the results.

Before radiation therapy begins, it must be planned carefully. This planning stage is often called a "simulation." During this visit, the medical team will figure out the best position for you to be in during treatment. Sometimes, permanent marks, or tattoo dots, will be made on the skin to help with daily setup for radiation therapy. After the simulation, the best position for the radiation beams and appropriate shielding for healthy tissue will be decided. Treatment often begins a few days after the simulation. Your radiation oncologist will evaluate your progress regularly and may adjust your treatment plan as needed.

What are the side effects of radiation therapy?

The side effects of radiation therapy vary and depend on the type and location of the cancer, the treatment dose, the parts of the body affected, and your overall health. Preventing and controlling side effects is a major focus of your health care team, so talk with them about any side effects you experience. Side effects may include fatigue, mild skin reactions, upset stomach, and loose bowel movements. Other side effects will be based on where the radiation therapy is aimed. Ask your health care team about the possible side effects of your treatment. The best way to care for yourself during radiation therapy is to seek emotional support and help minimize side effects by planning for extra rest, avoiding sun exposure to the treated area, and using approved lotions to relieve skin problems.

ASCO ANSWERS is a collection of oncologist-approved patient education materials developed by the American Society of Clinical Oncology (ASCO) for people with cancer and their caregivers.

Questions to ask the health care team

Regular communication is important in making informed decisions about your health care. It can be helpful to bring someone along to your appointments to take notes. Consider asking your health care team the following questions:

- > What is the type and stage of my cancer? What does this mean?
- Do I need radiation therapy? What type do you recommend?
- What is the goal of radiation therapy?
- How often will I receive radiation therapy?
- How much time will each treatment take?
- Will each treatment be the same? Will the radiation dose or area treated change during the treatment period?
- What can I do to get ready for this treatment?
- What will I experience when I receive radiation therapy? Will the treatment hurt or cause me discomfort?
- How will this treatment affect my daily life? Will I be able to work, exercise, and perform my usual activities?
- What are the potential side effects of this treatment? What can be done to prevent or relieve any side effects?
- > Will this treatment affect my ability to become pregnant or have children?
- Will this treatment affect my sex life? If so, for how long?
- What are the possible long-term or late effects of this treatment?
- If I have a question or problem, who should I call?

Find more information about this topic at www.cancer.net/radiationtherapy. For a digital list of questions, download Cancer.Net's free mobile app at www.cancer.net/app.

Words to Know

Computed tomography (CT) scan: An imaging test that creates a 3-dimensional picture of the inside of the body with an x-ray machine. It may be used for treatment planning.

Dosimetrist: A member of the treatment team who helps plan treatment and calculates the radiation dose.

Intensity-modulated radiation therapy (IMRT): Use of several small beams of radiation with different intensities to treat the cancer while protecting healthy tissue.

Medical radiation physicist: The expert who designs the radiation treatment plan.

Proton therapy: A radiation treatment that uses parts of atoms called protons instead of x-rays to treat cancer.

Radiation oncology nurse: A member of the treatment team who can answer questions and provide information and support.

Radiation therapist: The member of the treatment team who gives the radiation treatments.

Stereotactic radiation therapy: Used to deliver a large, precise radiation dose to a small tumor area, usually in 5 or fewer sessions.

Three-dimensional conformal radiation therapy (3D-CRT): Use of computers to make detailed 3-dimensional pictures to aim radiation directly at the cancer.

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