TREATMENT FOR HEAD AND NECK CANCERS

Treatment for head and neck cancers depends on several factors, including the type of cancer, its size and stage, its location and your overall health. Surgery, radiation therapy and chemotherapy are the mainstays of treating head and neck cancers.

For many head and neck cancers, combining two or three types of treatment may be most effective. That’s why it is important to talk to several cancer specialists about your care, including a surgeon, a radiation oncologist and a medical oncologist.

An important concept in treating head and neck cancers is organ preservation. An organ preservation approach uses radiation and sometimes chemotherapy to shrink or completely eliminate the tumor. This can allow some patients to avoid the need for surgery.

LEARNING ABOUT CLINICAL TRIALS

The radiation oncology treatment team is always exploring new ways to improve treatments through studies called clinical trials. Today’s treatments are a result of trials completed years ago proving that radiation therapy safely and effectively kills cancer cells and is safe long-term. For more information on clinical trials, visit:

- National Cancer Institute
  www.cancer.gov/clinicaltrials

ABOUT RADIATION ONCOLOGY TREATMENT TEAM

Radiation oncologists are cancer doctors who oversee the care of each patient receiving radiation therapy. Other members of the treatment team include radiation therapists, radiation oncology nurses, medical physicists, dosimetrists, social workers and nutritionists. To find a radiation oncologist near you, visit:

- Radiation Therapy Answers
  www.rtanswers.org

HELPFUL WEB SITES ON HEAD AND NECK CANCERS

- National Institute of Dental and Craniofacial Research
  www.nidcr.nih.gov

- Oral Cancer Foundation
  www.oralcancer.org

- Support for People with Oral and Head and Neck Cancer
  www.spohnc.org

ABOUT ASTRO

The American Society for Therapeutic Radiology and Oncology is the largest radiation oncology society in the world with more than 8,600 members specializing in treating cancer with radiation therapy. ASTRO’s mission is to advance the practice of radiation therapy by promoting excellence in patient care, promoting research and disseminating research results.

RADIATION THERAPY for HEAD AND NECK CANCERS
Facts to Help Patients Make an Informed Decision

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RADIATION THERAPY

- **External beam radiation therapy (EBRT)** includes various forms such as three-dimensional conformal radiotherapy (3D-CRT), intensity modulated radiation therapy (IMRT), and stereotactic radiotherapy (SABR). These treatments use large machines to deliver precise doses of radiation to the affected area, such as the head and neck or the prostate. Treatments are usually scheduled Monday through Friday, for five to eight weeks. However, your radiation oncologist may schedule your treatments more or less often depending on your cancer.

- **Intensity modulated radiation therapy (IMRT)** is a form of 3D-CRT that further modifies the radiation by varying the intensity of each radiation beam. This allows a precise adjustment of radiation doses to the tissue within the target area.

- **Three-dimensional conformal radiotherapy (3D-CRT)** combines multiple radiation treatment fields to deliver precise doses of radiation to the affected area. Targeted treatments like 3D-CRT and IMRT help get radiation to the cancer and avoid healthy tissue nearby. This may help avoid side effects like changes to your saliva.

- **Chemotherapy** is medicine that treats cancer. It is often given in addition to radiation therapy to help cure your cancer. Ask your doctor whether you will also be receiving chemotherapy and about any side effects to expect.

- **Intensity modulated radiation therapy (IMRT)** involves inserting radioactive material into a tumor or surrounding tissue. For head and neck cancers, brachytherapy is often used with external beam radiation therapy, but it may be used alone.

- **During brachytherapy**, your radiation oncologist places thin, hollow, plastic tubes into the tumor and surrounding tissue. These tubes are loaded with tiny radioactive seeds that remain in place for a short time to kill the cancer. The seeds and the tubes are then removed.

- **With low-dose-rate brachytherapy**, the seeds will be left in place for one to three days. For **high-dose-rate brachytherapy**, a single radioactive seed stops at various positions along the tubes for short times to deliver an equivalent dose. The exact type of brachytherapy and lengths of time the seeds are in place will depend on your cancer and treatment plan.

DENTAL CARE DURING TREATMENT

It is very important to care for your teeth during and after treatment. Radiation therapy to the head and neck area may increase your chances of mouth infections and tooth decay.

- Before starting radiation therapy, see your dentist. He or she will also want to see you during your treatment to help you care for your mouth.

- Careful brushing of your teeth can help prevent tooth decay, gum disease and jaw infections. Use a fluoride toothpaste without abrasives.

- Floss gently between your teeth daily using a waxed, non-shredding dental floss.

- It may help to rinse daily with a salt and baking soda solution.

- Your dentist may suggest applying fluoride to your teeth regularly.

Be sure your dentist and radiation oncologist talk to each other about the best care for your teeth.

CARING FOR YOURSELF DURING TREATMENT

- Get plenty of rest during treatment, and don’t be afraid to ask for help.

- Follow your doctor’s orders. Ask if you are unsure about anything.

- Tell your doctor about any medications or vitamins you are taking, to make sure they are safe to use during radiation therapy.

- Eat a balanced diet. If food tastes funny or if you’re having trouble eating, tell your doctor, nurse or dietician. They might be able to help you change the way you eat.

- Treat the skin exposed to radiation with special care. Stay out of the sun, avoid hot or cold packs, only use lotions and ointments after checking with your doctor or nurse and clean the area with warm water and mild soap.

- Battling cancer is tough. Seek out help from support groups and friends.

POSSIBLE SIDE EFFECTS

- **Side effects of radiation therapy** are limited to the area that is receiving treatment.

- **Side effects** can include redness of the skin, sore mouth and throat, dry mouth, thick phlegm, alteration of taste, pain on swallowing, and hair loss on your head, neck and face. Fatigue or feeling tired is also very common.

- The way foods taste and the amount of saliva you produce should improve after treatment ends. However, foods might never taste exactly as they did before treatment.

- **Side effects are different for each patient.** Medications may be prescribed to make you as comfortable as possible. Nutritional supplements may be given to help prevent weight loss.

- If at any time during your treatment you feel discomfort, tell your doctor or nurse. They can prescribe medicine to help you feel better.