Treating Oral Cavity and Oropharyngeal Cancer

How are oral cavity and oropharyngeal cancers treated?

The main treatment options for people with oral cavity and oropharyngeal cancers are:

- Surgery for Oral Cavity and Oropharyngeal Cancer
- Radiation Therapy for Oral Cavity and Oropharyngeal Cancer
- Chemotherapy for Oral Cavity and Oropharyngeal Cancer
- Targeted Therapy for Oral Cavity and Oropharyngeal Cancer
- Immunotherapy for Oral Cavity and Oropharyngeal Cancer
- Palliative Treatment for Oral Cavity and Oropharyngeal Cancer

Common treatment approaches

Different treatments might be used either alone or in combination, depending on the stage and location of the tumor. In general, surgery is the first treatment for cancers of the oral cavity and may be followed by radiation or combined chemotherapy and radiation. Oropharyngeal cancers are usually treated with a combination of chemotherapy and radiation.

- Treatment Options for Oral Cavity and Oropharyngeal Cancer by Stage
- Treatment Options for Oropharyngeal Cancer by Stage

Who treats oral cavity and oropharyngeal cancer?

Based on the stage and location of the tumor, you may have different types of doctors on your treatment team. These doctors may include:
• An **otolaryngologist** (also known as an ear, nose, and throat, or ENT doctor): a surgeon who treats certain diseases of the head and neck.

• An **oral and maxillofacial surgeon**: a dental surgeon who treats diseases of the mouth, teeth, and jaws.

• A **radiation oncologist**: a doctor who treats cancer with radiation therapy.

• A **medical oncologist**: a doctor who treats cancer with medicines such as chemotherapy, immunotherapy, or targeted therapy.

• A **plastic surgeon**: a doctor who specializes in reconstructing or repairing parts of the body

Many other specialists may be involved in your care as well, including nurse practitioners, nurses, nutrition specialists, speech therapists, dentists, social workers, psychologists, and other health professionals. Treating cancers in the mouth and throat can affect how you eat, look, and breathe. A cancer care team will work with you to limit changes to your body and adjust to changes that take place while using the best treatments available.

• **Health Professionals Associated with Cancer Care**

**Making treatment decisions**

It’s important to discuss all of your treatment options, including treatment goals and possible side effects, with your doctors to help make the decision that best fits your needs. It’s also very important to ask questions if there is anything you’re not sure about.

When you choose a treatment plan, consider your overall health, the type and stage of the cancer, the chances of curing the disease, and the possible impact of the treatment on important functions like speech, chewing, and swallowing.

If time permits, it is often a good idea to seek a second opinion. A second opinion can give you more information and help you feel more confident about the treatment plan you choose.

• **What Should You Ask Your Doctor About Oral Cavity and Oropharyngeal Cancers?**

• **Seeking a Second Opinion**

**Thinking about taking part in a clinical trial**
Clinical trials are carefully controlled research studies that are done to get a closer look at promising new treatments or procedures. Clinical trials are one way to get state-of-the-art cancer treatment. In some cases they may be the only way to get access to newer treatments. They are also the best way for doctors to learn better methods to treat cancer. Still, they’re not right for everyone.

If you would like to learn more about clinical trials that might be right for you, start by asking your doctor if your clinic or hospital conducts clinical trials.

- Clinical Trials

**Considering complementary and alternative methods**

You may hear about alternative or complementary methods that your doctor hasn’t mentioned to treat your cancer or relieve symptoms. These methods can include vitamins, herbs, and special diets, or other methods such as acupuncture or massage, to name a few.

Complementary methods refer to treatments that are used along with your regular medical care. Alternative treatments are used instead of a doctor’s medical treatment. Although some of these methods might be helpful in relieving symptoms or helping you feel better, many have not been proven to work. Some might even be harmful.

Be sure to talk to your cancer care team about any method you are thinking about using. They can help you learn what is known (or not known) about the method, which can help you make an informed decision.

- Complementary and Alternative Medicine

**Help getting through cancer treatment**

People with cancer need support and information, no matter what stage of illness they may be in. Knowing all of your options and finding the resources you need will help you make informed decisions about your care.

Whether you are thinking about treatment, getting treatment, or not being treated at all, you can still get supportive care to help with pain or other symptoms. Communicating with your cancer care team is important so you understand your diagnosis, what treatment is recommended, and ways to maintain or improve your quality of life.

Different types of programs and support services may be helpful, and can be an
important part of your care. These might include nursing or social work services, financial aid, nutritional advice, rehab, or spiritual help.

The American Cancer Society also has programs and services – including rides to treatment, lodging, and more – to help you get through treatment. Call our National Cancer Information Center at 1-800-227-2345 and speak with one of our trained specialists.

- Palliative Care
- Find Support Programs and Services in Your Area

Choosing to stop treatment or choosing no treatment at all

For some people, when treatments have been tried and are no longer controlling the cancer, it could be time to weigh the benefits and risks of continuing to try new treatments. Whether or not you continue treatment, there are still things you can do to help maintain or improve your quality of life.

Some people, especially if the cancer is advanced, might not want to be treated at all. There are many reasons you might decide not to get cancer treatment, but it’s important to talk to your doctors and you make that decision. Remember that even if you choose not to treat the cancer, you can still get supportive care to help with pain or other symptoms.

- If Cancer Treatments Stop Working

*The treatment information given here is not official policy of the American Cancer Society and is not intended as medical advice to replace the expertise and judgment of your cancer care team. It is intended to help you and your family make informed decisions, together with your doctor. Your doctor may have reasons for suggesting a treatment plan different from these general treatment options. Don’t hesitate to ask him or her questions about your treatment options.*

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**Surgery for Oral Cavity and Oropharyngeal Cancer**
Surgery is often the first treatment used for these cancers. Several types of operations can be done to treat oral cavity and oropharyngeal cancers, depending on where the cancer is located and its stage\(^1\). It's most commonly used for small, early-stage cancers that haven't spread.

After the cancer is removed, reconstructive surgery might be done to help restore the appearance and function of the areas affected by the cancer or cancer treatment.

*Studies have shown that people with head and neck cancer who are treated at facilities that perform a lot of head and neck cancer surgeries, tend to live longer. Because of this and the complex nature of these operations, it’s very important to have a surgeon and cancer center who has experience treating these cancers.*

**Quit smoking**

If you smoke, *quitting for good (before treatment starts, if possible) is the best way to improve your chances for survival.* Smoking during cancer treatment can increase the risk of side effects after surgery and is linked to poor wound healing and worse outcomes. Smoking after treatment can also increase the risk of the cancer coming back as well as the risk of getting a new cancer. It is never too late to quit\(^2\).

**Tumor resection**

In a tumor resection, the entire tumor and a margin (edge) of normal-looking tissue around it is removed (resected). The margin of normal tissue is taken out to reduce the chance of any cancer cells being left behind.

The main (primary) tumor is removed using a method based on its size and location. For example, if a tumor is in the front of the mouth, it might be relatively easy to remove it through the mouth. But a larger tumor (especially when it has grown into the oropharynx) may need to be removed through an incision (cut) in the neck or by cutting the jaw bone with a special saw to get to the tumor. (This is called a mandibulotomy.)

Based on the location and size of the tumor, one of the operations listed here may be done to remove it:

**Mohs micrographic surgery (for some cancers of the lip)**

Some cancers of the lip, such as those at the very edge of the lip, may be removed by Mohs surgery, also known as micrographic surgery. The tumor is removed in very thin
slices. Each slice is looked at right away under the microscope to see if it has cancer cells. Slices are removed and examined until no cancer cells are seen.

With this method, the amount of normal tissue removed with the tumor is reduced and the change in appearance caused by the surgery is limited. It requires a surgeon trained in the technique and may take more time than a standard tumor resection.

**Glossectomy (removal of the tongue)**

Glossectomy may be needed to treat cancer of the tongue. For smaller cancers, only part of the tongue (less than 1/3) may need to be removed (partial glossectomy). For larger cancers, the entire tongue may need to be removed (total glossectomy).

**Mandibulectomy (removal of the jaw bone)**

For a mandibulectomy (or mandibular resection), the surgeon removes all or part of the jaw bone (mandible). This operation might be needed if the tumor has grown into the jaw bone. If a tumor near the jaw is hard to move when the doctor examines it, it often means that the cancer has grown into the jaw bone.

If the jaw bone looks normal on imaging tests and there's no evidence the cancer has spread there, the bone may not need to be cut all the way through. In this operation, also known as a **partial-thickness mandibular resection** or **marginal mandibulectomy**, the surgeon removes only part or a piece of jaw bone.

If the x-ray shows the tumor has grown into the jaw bone, a large part of the jaw will need to be removed in an operation called a **segmental mandibulectomy**. The removed piece of the mandible can then be replaced with a piece of bone from another part of the body, such as the lower leg, hip bone, or the shoulder blade. A metal plate or a piece of bone from a deceased donor may also be used to repair the bone.

**Maxillectomy**

If cancer has grown into the hard palate (front part of the roof of the mouth), all or part of the involved bone (maxilla) will need to be removed. This operation is called a **maxillectomy** or **partial maxillectomy**.

This operation makes a hole in the roof of the mouth which can be filled with a special denture called a **prosthesis**. This is created by a prosthodontist, a dentist with special training. Other options to close this gap include a skin graft or a piece of muscle from the forearm or thigh.
Robotic surgery

More and more, trans-oral robotic surgery (TORS) is being used to remove cancers of the back of the throat and mouth that might otherwise need a mandibulectomy for the surgeon to reach the tumor. The surgeon sits at a control panel in the operating room and with the help of an attached camera moves robotic arms with small tools on them to cut out the tumor.

Because the more standard, open surgeries for throat cancer can result in more extensive operations, newer robotic surgeries may allow surgeons to completely remove throat cancers with fewer side effects. Since these procedures are newer, it’s important to have them done by surgeons and at treatment centers that are experienced in this approach.

Laryngectomy (removal of the voice box)

Very rarely, surgery to remove large tumors at the base of the tongue or oropharynx may require removing tissue that a person needs to swallow normally. As a result, food may enter the windpipe (trachea) and reach the lungs, where it can cause pneumonia. When there’s a high risk of this, the voice box (larynx) may also be removed during the same operation as the one to remove the cancer. Removal of the larynx is called a laryngectomy.

When the voice box is removed, the windpipe is attached to a hole (stoma) made in the skin in the front of the neck. You breathe and cough through this stoma (instead of breathing through the mouth or nose). This is called a tracheostomy or trach.

Losing your voice box will mean that normal speech is no longer possible, but people can learn other ways to speak. See Living as a Laryngeal and Hypopharyngeal Cancer Survivor to find out more about voice restoration.

Neck dissection

Cancers of the oral cavity and oropharynx often spread to the lymph nodes in the neck. Removing these lymph nodes (and other nearby tissues) is called a neck dissection or lymph node dissection and is done at the same time as the surgery to remove the main tumor. The goal is to remove lymph nodes proven to contain cancer. Sometimes doctors recommend an elective lymph node dissection. This may be done if there’s no proof that the cancer has spread to the lymph nodes, but there’s a high chance that it has based on tumor size.
In some early-stage mouth and lip cancers, a sentinel lymph node biopsy might be done to test the lymph nodes for cancer before removing them. This should only be done at treatment centers by doctors with a lot of experience in the technique.

There are several types of neck dissection procedures, and they differ in how much tissue is removed from the neck. The amount of tissue removed depends on the primary cancer’s size and how much it has spread to lymph nodes.

- In a partial or selective neck dissection only a few lymph nodes are removed.
- For a modified radical neck dissection, most lymph nodes on one side of the neck between the jaw bone and collarbone are removed, as well as some muscle and nerve tissue.
- In a radical neck dissection, nearly all nodes on one side, as well as even more muscles, nerves, and veins are removed.

The most common side effects of any neck dissection are numbness of the ear, weakness when raising the arm above the head, and weakness of the lower lip. These side effects are caused when nerves that supply these areas are damaged during the operation. After a selective neck dissection, the nerve might only be injured and can heal over time. Nerves heal slowly, but in this case, the weakness of the shoulder and lower lip may go away after a few months. If a nerve is removed as part of a radical neck dissection or because of involvement with tumor, the weakness will be permanent.

After any neck dissection procedure, physical therapy can help improve neck and shoulder movement.

**Reconstructive surgery**

Operations may be needed to help restore the structure of areas affected by more extensive surgeries to remove the cancer.

For small tumors, the narrow edge of normal tissue removed along with the tumor is usually small enough that reconstructive surgery isn't needed. But removing larger tumors may cause defects in the mouth, throat, or neck that will need to be repaired. Sometimes a thin slice of skin, taken from the thigh or other area, can be used to repair a small defect. This is called a skin graft.

To repair a larger defect, more tissue may be needed. A piece of muscle with or without skin may be rotated from an area close by, such as the chest (pectoralis major pedicle flap) or upper part of the back (trapezius pedicle flap).
Thanks to advances in microvascular surgery (sewing together small blood vessels under a microscope), there are many more options for reconstructing the oral cavity and oropharynx. Tissue from other areas of the body, such as the intestine, arm muscle, abdominal (belly) muscle, or lower leg bone, may be used to replace parts of the mouth, throat, or jaw bone.

Before you have extensive head and neck surgery, talk to the surgeon about your options for reconstructive surgery.

**Surgery to save or restore body function**

**Tracheostomy**

A tracheostomy or trach is a stoma (hole) made through the skin in the front of the neck and attached to the trachea (windpipe). It's done to help a person breathe.

If a lot of swelling is expected in the airway after the cancer is removed, the doctor may want to do a short-term tracheotomy (using a small plastic tube) to allow the person to breathe more easily until the swelling goes down. It stays in place for a short time, and is then removed (or reversed) when it's no longer needed.

If the cancer is blocking the throat and is too big to remove completely, an opening may be made to connect a lower part of the windpipe to a stoma (hole) in the front of the neck. This is done to bypass the tumor and allow the person to breathe more comfortably. This is called a permanent tracheostomy.

A permanent tracheostomy is also needed after a total laryngectomy.

**Feeding tubes**

Cancers in the oral cavity and oropharynx may keep you from swallowing enough food to stay well nourished. This can make you weak and make it harder to complete treatment. Sometimes the treatment itself can make it hard to eat enough.

A **gastrostomy tube (G-tube)** is a feeding tube that's put through the skin and muscle of your abdomen (belly) and right into your stomach. Sometimes this tube is placed during an operation, but often it's put in endoscopically. While you are sedated (using drugs to put you in a deep sleep), the doctor puts a long, thin, flexible tube with a camera on the end (an endoscope) down the throat to see inside the stomach. The feeding tube is then guided through the endoscope and to the outside of the body. When the feeding tube is placed through endoscopy, it's called a **percutaneous**
endoscopic gastrostomy, or PEG tube. Once in place, it can be used to put liquid nutrition right into the stomach. As long as they can still swallow normally, people with these tubes can eat normal food, too.

PEGs can be used for as long as needed. Sometimes these tubes are used for a short time to help keep you healthy and fed during treatment. They can be removed when you can eat normally.

If the swallowing problem is likely to be only short-term, another option is to place a nasogastric feeding tube (NG tube). This tube goes in through the nose, down the esophagus, and into the stomach. Again, special liquid nutrients are put in through the tube. Some people dislike having a tube coming out of their nose, and prefer a PEG tube.

In any case, the patient and family are taught how to use the tube. After you go home, home health nurses may visit to make sure you are comfortable with tube feedings.

Dental extraction and implants

When radiation treatment is planned, a dental evaluation must be done. Depending on the radiation plan and condition of your teeth, some or even all of the teeth may need to be removed before radiation can start. The teeth may be removed either by the head and neck surgeon or an oral surgeon. If left in and exposed to radiation, teeth that are broken or infected (abscessed) are very likely to cause problems such as infections and areas of necrosis (bone death) in the jaw.

If part of the jaw bone (mandible) is removed and reconstructed with bone from another part of the body, the surgeon might place dental implants (hardware to which prosthetic teeth can be attached) in the bone. This can be done either at the same time the mandible is reconstructed or at a later date.

Surgery risks and side effects

All surgery carries risk, including blood clots, infections, complications from anesthesia, and pneumonia. These risks are generally low but are higher with more complex operations.

If the surgery is not too complex, the main side effect may be some pain afterward, which can be treated with medicines.

Surgery for cancers that are large or hard to reach may be very complicated, in which
case side effects may include infection; wound breakdown; problems with eating, breathing, and speaking; or on very rare occasions death during or shortly after the procedure. Surgery also can be disfiguring, especially if bones in the face or jaw need to be removed. The surgeon’s skill is very important in minimizing these side effects, while removing all of the cancer, so it’s important to choose a surgeon with a lot of experience in these types of cancer.

**Impact of glossectomy:** Most people can still speak if only part of the tongue is removed, but they often notice that their speech isn’t as clear as it once was. The tongue is important in swallowing, so this may also be affected. Speech therapy can often help with these problems.

When the entire tongue is removed, patients lose the ability to speak and swallow. With reconstructive surgery and a good rehabilitation program including speech therapy, some people may regain the ability to swallow and speak well enough to be understood.

**Impact of laryngectomy:** Laryngectomy, the surgery that removes the voice box, leaves a person without the normal means of speech. There are several ways to restore one’s voice. See [Laryngeal and Hypopharyngeal Cancer](#) to find out more about voice restoration.

After a laryngectomy, the person breathes through a stoma (tracheostomy) placed in the front of the lower neck. Having a stoma means that the air you breathe in and out will no longer pass through your nose or mouth, which would normally help moisten, warm, and filter the air (removing dust and other particles). The air reaching the lungs will be dryer and cooler. This can irritate the lining of the breathing tubes and cause thick or crusty mucus to build up.

It’s important to learn how to take care of your stoma. You will need to use a humidifier over the stoma as much as possible, especially right after the operation, until the airway lining has a chance to adjust to the drier air now reaching it. You will also need to learn how to suction out and clean your stoma to help keep your airway open. Your doctors, nurses, and other health care professionals can teach you how to care for and protect your stoma, which includes precautions to keep water from entering the windpipe while showering or bathing, as well as keeping small particles out of the windpipe.

**Impact of facial bone removal:** Some cancers of the head and neck are treated with operations that remove part of the facial bone structure. Because the changes that result are so visible, they can have a major effect on how people view themselves. They can also affect speech and swallowing.

It’s important to talk with your doctor about these changes before the surgery. This can
help you prepare for them. You can also get an idea about what options might be available afterward. Recent advances in facial prostheses (man-made replacements) and in reconstructive surgery now give many people a more normal look and clearer speech. These things can be a great help to a person’s self-esteem.

**More information about Surgery**

For more general information about surgery as a treatment for cancer, see [Cancer Surgery](#).

To learn about some of the side effects listed here and how to manage them, see [Managing Cancer-related Side Effects](#).

**Hyperlinks**


**References**


Cigna E, Rizzo MI, Greco A, et al. Retromolar trigone reconstructive surgery:


Vartanian JG, Magrin J, Kowalski LP. Total glossectomy in the organ preservation era.
Radiation Therapy for Oral Cavity and Oropharyngeal Cancer

Studies have shown that people who are treated at centers that treat a lot of head and neck cancers with radiation, tend to live longer. And because of the complicated types of surgeries, along with the need for coordination between cancer specialists to make a complete treatment plan, it’s very important to have treatment at cancer centers by radiation oncologists who have experience in treating these cancers.

Radiation therapy uses high-energy x-rays or particles to destroy cancer cells or slow their growth. Depending on the stage of the oral cavity or oropharyngeal cancer and other factors, radiation therapy might be used:

- **Alone** as the main treatment for small cancers or for people who can't have surgery.
- **After surgery (adjuvant therapy)**, either alone or with chemotherapy (chemoradiation), to try to kill any cancer cells that might have been left behind because they were too small to be seen with the naked eye during surgery. Radiation after surgery can also help lower the chance the cancer will come back in the same spot.
- **Before surgery (neoadjuvant therapy)** with chemotherapy (chemoradiation) or after chemotherapy to try to shrink some larger cancers. In some cases, this might make it possible to use less extensive surgery and remove less tissue.
- **With a targeted drug** for larger cancers, if chemotherapy is not an option.
- **To help ease symptoms** of advanced cancer, such as pain, bleeding, trouble swallowing, and problems caused by cancer spread to lungs or bones.
- **To treat cancer that has come back after treatment (recurrence).**
Chemoradiation (radiation given at the same time as chemotherapy) often works better than radiation alone, but it also has more side effects.\(^1\)

Radiation to this part of your body can cause problems for your teeth and gums, so it's important to see a dentist before starting treatment. A dentist can make sure your mouth is healthy before treatment. They might recommend that certain bad teeth be removed before you start radiation because this can increase your chance of infection. During and after treatment your dentist can help check for and treat any problems that may come up, such as infection or tooth and bone damage.

**Quit smoking before oral and oropharyngeal cancer treatment**

**If you smoke, it is important to quit.** Smoking during radiation treatment can cause more side effects and a poor response to radiation, which can raise your risk of the cancer coming back (recurrence). Smoking after treatment also increases the chance of getting a new cancer. **Quitting smoking for good (before treatment starts, if possible) is the best way to improve your chances for successful treatment.** It is never too late to quit. For help, see [How To Quit Using Tobacco]({2}).

**External beam radiation used for oral and oropharyngeal cancers**

**External beam radiation therapy**\(^3\) (EBRT) is the type of radiation therapy most often used to treat oral cavity or oropharyngeal cancer or its spread to other organs. It focuses radiation from a source outside the body onto the cancer.

Before EBRT, a somewhat flexible but sturdy mesh head and neck mask might be made to hold your head, neck, and shoulders in the exact same position for each treatment. Some people might feel a bit confined while this mask is on and might need to ask for medicine to help them relax during the treatment. Sometimes, the mask can be adjusted so that it is not too constricting. Discuss your options with your radiation oncologist. You might also be fitted for a bite block that you hold in your mouth during treatment.

Treatment is much like getting an x-ray, but the radiation dose is stronger. The procedure itself is without pain and each treatment lasts only a few minutes. The setup time (getting you into place for treatment) often takes longer.

**Different types of EBRT**

There are also more advanced EBRT techniques that help doctors focus the radiation...
more precisely.

**Three-dimensional conformal radiation therapy (3D-CRT)** uses special computers to precisely map the location of the tumor. Several radiation beams are then shaped and aimed at the tumor from different directions, which makes it less likely to damage normal tissues.

**Intensity modulated radiation therapy (IMRT)** is a form of 3D-CRT. It uses a computer-driven machine that actually moves around the patient as it delivers radiation. Along with shaping the beams and aiming them at the tumor from several angles, the intensity (strength) of the beams can be adjusted to limit the dose reaching nearby normal tissues. This may let the doctor deliver a higher dose to the tumor.

**Proton beam radiation therapy** focuses beams of protons instead of x-rays on the cancer. Unlike x-rays, which go through the patient and release radiation both before and after they hit the tumor, protons only travel a certain distance, so the tissues behind the tumor are exposed to very little radiation. Even the tissues in front of the tumor see less radiation than the tumor itself. This means that proton beam radiation can deliver radiation to the cancer while doing less damage to nearby normal tissues. Because there are so many critical structures close by, proton beam radiation can be used to treat certain tumors of the oral cavity or oropharynx. Proton therapy can be a safe option in certain cases when using x-rays is not.

Proton therapy is not widely available in the United States. The machines needed to make protons are very expensive. Proton therapy might also not be covered by all insurance companies at this time.

**Different treatment schedules for EBRT**

Standard EBRT for oral cavity or oropharyngeal cancers is usually given in daily fractions (doses) 5 days a week for about 7 weeks. But sometimes other schedules might be used:

- **Hyperfractionation** radiation is a slightly lower radiation dose given more than once a day (for example, twice a day for 7 weeks).
- **Accelerated fractionation** radiation is the standard dose of radiation given each day but over a shorter time (5 to 6 weeks) instead of the usual 7 weeks (for example, radiation is given 6 days a week over 5 weeks instead of the standard 5 days a week for 7 weeks).
- **Hypofractionation** radiation is a slightly higher radiation dose given each day to lessen the number of treatments (for example, a higher radiation dose is given each
day for 6 weeks, not the standard 7 weeks).

Hyperfractionation and accelerated fractionation schedules may reduce the risk of cancer coming back in or near the place it started (called local recurrence) and might help some people live longer compared to standard EBRT. The drawback is that treatments given on these schedules also tend to have more severe side effects. Adding chemotherapy to these treatment schedules (chemoradiation) doesn't appear to improve outcomes more.

Brachytherapy for oral and oropharyngeal cancers

Brachytherapy is rarely used to treat oral cavity or oropharyngeal cancers as a first treatment, but it might be used if the cancer recurs (comes back).

Possible side effects of radiation therapy for oral cavity or oropharyngeal cancer

If you are going to get radiation therapy, it's important to ask your doctor about the possible side effects so you know what to expect.

Radiation to the mouth and throat area can cause several short-term side effects depending on where the radiation is aimed and can include:

- Skin changes like a sunburn or suntan in the treated area
- Hoarseness
- Loss of taste
- Redness, soreness, or even pain in the mouth and throat
- Dry mouth
- Trouble swallowing
- Feeling tired
- Open sores in the mouth and throat

Long-lasting or permanent side effects of radiation therapy

Poor nutrition and trouble swallowing: Many people treated with radiation to the oral cavity and throat area have painful sores in the mouth and throat that can make it very hard to eat and drink. This can lead to weight loss and poor nutrition. The sores heal with time after the radiation ends, but some people continue to have problems
swallowing long after treatment ends because of the tightening of the muscles caused by radiation. **Ask your speech pathologist about swallowing exercises you can do to help keep those muscles working and increase your chance of eating normally after treatment.** Liquid feeding through a tube placed into the stomach might be needed. (See Surgery for Oral Cavity and Oropharyngeal Cancer for more on tube feedings.)

**Dry mouth:** Damage to the salivary (spit) glands from radiation can cause a dry mouth that doesn't get better with time. This can lead to discomfort and problems eating and swallowing, as well as damage to the jaw bone.

The lack of saliva can also lead to tooth decay (cavities). People treated with radiation to the mouth or neck need to practice careful oral hygiene to help prevent this problem and see their dentist regularly. Fluoride treatments may also help.

**Damage to the jaw bone:** This problem, known as osteoradionecrosis of the jaw, can be a serious side effect of radiation treatment. This is more common after tooth infection, extraction, or trauma, and it can be hard to treat. The main symptom is pain in the jaw. In some cases, the bone actually breaks. Sometimes the fractured bone heals by itself, but often the damaged bone will have to be repaired with surgery.

To help prevent this problem, people getting radiation to the mouth or throat area need to see a dentist to have any problems with their teeth treated before radiation is started. In some cases, teeth may need to be removed.

**Thyroid problems:** Radiation might damage your thyroid gland. Your doctor will do blood tests regularly to see how well your thyroid is working. You may need treatment if it's been damaged and is not working well.

**Lymphedema:** Some people treated with radiation therapy might be at risk of developing lymphedema in the head and neck areas that were treated. These areas can become swollen and firm. This can be worse if the person also had surgery. Sometimes, medicines, physical therapy, or massage therapy might be helpful.

**Damage to the carotid artery:** Radiation to the neck area might increase a person's risk of stroke many years after treatment. This might be because of health problems that were already present before radiation such as narrowing of the artery or an increase in plaques which can both decrease blood flow. People who smoke are also damaging their arteries. Because of this some doctors might order regular ultrasounds for you after treatment, to keep an eye on the arteries.

**More information about radiation therapy**
To learn more about how radiation is used to treat cancer, see Radiation Therapy\(^6\).

To learn about some of the side effects listed here and how to manage them, see Managing Cancer-related Side Effects\(^7\).

**Hyperlinks**

5. [www.cancer.org/treatment/treatments-and-side-effects/physical-side-effects.html](www.cancer.org/treatment/treatments-and-side-effects/physical-side-effects.html)

**References**


Chemotherapy for Oral Cavity and Oropharyngeal Cancer

Quit smoking before oral cavity and oropharyngeal cancer treatment

If you smoke, you should quit. Smoking during chemotherapy treatment can cause more side effects and can cause the chemo drugs to not work as well. It can give you a higher chance of getting an infection and is linked to worse outcomes. Smoking after treatment can also increase the risk of the cancer coming back and of getting another new cancer. Quitting smoking (before treatment starts, if possible) is the best way to improve your chances of survival. It is never too late to quit. For help, see How To Quit Using Tobacco¹.
How is chemotherapy used to treat oral cavity and oropharyngeal cancers?

Chemotherapy (chemo) is treatment with anti-cancer drugs that are injected into a vein or taken by mouth, which allows them to enter the blood and reach most parts of the body.

Chemo might be used at different times in the treatment process for treatment of oral cavity or oropharyngeal cancers:

- **Adjuvant chemotherapy** is given after surgery and is sometimes combined with radiation therapy. The goal is to kill cancer cells that might have been left behind at surgery because they were too small to see. This helps lower the chance that the cancer will come back.
- **Neoadjuvant or induction chemotherapy** is given before surgery. Sometimes the chemo is given first followed by radiation. Other times, it is given at the same time as radiation. The goal is to shrink some larger cancers to make surgery easier and remove less tissue. This can lead to fewer serious side effects and problems from surgery.
- For advanced cancer, chemo (with or without radiation therapy) can be used to treat cancers that are too large or have spread too far to be removed by surgery. The goal is to slow the growth of the cancer for as long as possible and to help relieve any symptoms the cancer is causing.

**Chemoradiation**

Chemoradiation is chemotherapy given at the same time as radiation. It has been shown to shrink oral cavity and oropharyngeal tumors more than either treatment alone and is helpful for people whose cancers are not widespread, but are too advanced for surgery. But this combined approach can be hard to tolerate, especially for people in poor health.

A preferred schedule is to give a dose of cisplatin every 3 weeks (for a total of 2 to 3 doses) during radiation. For people who cannot tolerate chemo, the targeted drug cetuximab might be used with radiation instead. See below for more chemo drugs that might be used with radiation.

**How is chemotherapy given?**
Chemo drugs for oral cavity or oropharyngeal cancer are usually given by mouth or into a vein (IV) as an infusion over a certain period of time. This can be done in a doctor’s office, infusion center, or in a hospital setting.

Often, a slightly larger and sturdier IV is required in the vein system for chemo. These IVs are known as central venous catheters (CVCs), central venous access devices (CVADs), or central lines. They are used to put medicines, blood products, nutrients, or fluids right into your blood. They can also be used to take blood for tests. There are many different kinds of CVCs. The most common types are the port and the PICC line.

Chemotherapy is given in cycles: one drug or a combination of drugs given on a set schedule, followed by a rest period. Common schedules of chemo cycles can be once a week, once every 3 weeks, or once every 4 weeks. The schedule depends on the drugs used. The chemo schedule repeats to start the next cycle.

Adjuvant or neoadjuvant chemo is often given for a total of 3 to 6 months, depending on the drugs used. The length of treatment depends on how well it is working and what side effects you might have.

**Chemo drugs used to treat oral cavity or oropharyngeal cancer**

The chemo drugs used most often for cancers of the oral cavity and oropharynx that can be given with or without radiation include:

- Cisplatin
- Carboplatin
- 5-fluorouracil (5-FU)
- Paclitaxel (Taxol)
- Docetaxel (Taxotere)
- Hydroxyurea

Other drugs that are used less often include:

- Methotrexate
- Capecitabine

A chemo drug may be used alone or combined with other drugs. Combining drugs can often shrink tumors better, but tend to cause more side effects. A commonly used combination is carboplatin and 5-FU. This combination works better than either drug alone in shrinking cancers of the oral cavity and oropharynx. Another combination often
used is cisplatin, 5-FU, plus docetaxel. In certain cases, chemo might be given along with a targeted drug or immunotherapy.

Possible side effects of chemotherapy

Chemo drugs attack cells that are dividing quickly, which is why they work against cancer cells. But other cells in the body, such as those in the bone marrow, the lining of the mouth and intestines, and the hair follicles also divide quickly and are affected. This can lead to side effects.

The side effects of chemo depend on the type and dose of drugs given and how long they are taken. Common side effects can include:

- Hair loss
- Mouth sores
- Loss of appetite or weight loss
- Nausea and vomiting
- Diarrhea
- Nail changes
- Skin changes

Chemo can affect the blood-producing cells of the bone marrow, which can lead to:

- Increased chance of infections (from low white blood cell counts)
- Easy bruising or bleeding (from low blood platelet counts)
- Fatigue (from low red blood cell counts)

Along with the risks above, some side effects are seen more often with certain chemo drugs. For example, 5-FU often causes diarrhea. This might need to be treated with drugs like loperamide. Cisplatin, docetaxel, and paclitaxel can cause nerve damage (called neuropathy). This can lead to numbness and tingling in the hands and feet. This often improves once treatment is stopped, but for some people it can last a long time. Cisplatin can also cause kidney damage. To help prevent this, intravenous (IV) fluid is given before and after each dose.

Most side effects tend to get better over time once treatment is stopped. Some, such as neuropathy can last a long time or even be permanent. If your doctor plans treatment with chemo be sure to discuss the drugs that will be used and the possible side effects. Once chemo is started, tell your health care team if you notice any changes or have any
side effects. There are ways to prevent or treat many of the side effects of chemo. For example, many drugs are available to help prevent or treat nausea and vomiting. In some cases, the doses of the chemo drugs may need to be reduced or treatment may need to be delayed or stopped to help keep the problem from getting worse.

More information about chemotherapy

For more general information about how chemotherapy is used to treat cancer, see [Chemotherapy](#).

To learn about some of the side effects listed here and how to manage them, see [Managing Cancer-related Side Effects](#).

Hyperlinks


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Targeted Therapy for Oral Cavity and Oropharyngeal Cancer

What is targeted drug therapy?

Targeted drug therapy is the use of medicines that target or are directed at proteins on cancer cells that help them grow, spread, and live longer. Targeted drug therapy can be
used to treat oral cavity and oropharyngeal cancers by destroying cancer cells or
slowing their growth. Their side effects are different from chemotherapy (sometimes
less severe) and many are taken as a pill.

Some targeted drugs, for example, monoclonal antibodies, work in more than one way
to control cancer cells and may also be considered immunotherapy because they boost
the immune system.

**Drug that targets cancer cells with EGFR changes**

Epidermal growth factor receptor (EGFR) is a protein that helps cancer cells grow.
Drugs that target EGFR can be used to treat some oral cavity or oropharyngeal
cancers.

**Cetuximab for oral cavity or oropharyngeal cancers**

Cetuximab (Erbitux) is a monoclonal antibody, which is a man-made version of an
immune system protein. It targets the epidermal growth factor receptor (EGFR) protein
on the surface of certain cells that helps cells grow and divide. Oral cavity and
oropharyngeal cancer cells often have higher than normal amounts of EGFR. By
blocking EGFR, cetuximab can help slow or stop cancer cell growth.

Cetuximab can be combined with radiation therapy for some earlier stage cancers. For
more advanced cancers, it may be combined with standard chemo drugs such as
cisplatin, or it may be used by itself.

Cetuximab is given by infusion into a vein (IV), either once a week or every other week.

**Possible side effects of targeted drug therapy**

Many people develop skin problems such as an acne-like rash on the face and chest
during treatment, which in some cases can lead to infections. Cetuximab can make your
skin very sensitive to the sun, so you'll need to protect your skin while getting treatment
and for at least months after treatment. Other side effects may include headache,
tiredness, fever, and diarrhea.

A rare but serious side effect of cetuximab is an allergic reaction during the first
infusion, which could cause problems with breathing and low blood pressure. You may
be given medicine before treatment to help prevent this.

**More information about targeted therapy**
To learn more about how targeted drugs are used to treat cancer, see Targeted Cancer Therapy\(^7\).

To learn about some of the side effects listed here and how to manage them, see Managing Cancer-related Side Effects\(^8\).

Hyperlinks

3. [www.cancer.org/treatment/understanding-your-diagnosis/advanced-cancer/what-is.html](http://www.cancer.org/treatment/understanding-your-diagnosis/advanced-cancer/what-is.html)
5. [www.cancer.org/treatment/treatments-and-side-effects/physical-side-effects/stool-or-urine-changes/diarrhea.html](http://www.cancer.org/treatment/treatments-and-side-effects/physical-side-effects/stool-or-urine-changes/diarrhea.html)

References


Immunotherapy for Oral Cavity and Oropharyngeal Cancer

Immunotherapy can be used to treat oral cavity and oropharyngeal cancers. Immunotherapy is the use of medicines to help boost a person’s own immune system to find and destroy cancer cells more effectively. It typically works on specific proteins involved in the immune system to enhance the immune response. It has different (sometimes less severe) side effects than chemotherapy.

Some immunotherapy drugs, for example, monoclonal antibodies, work in more than one way to control cancer cells and may also be considered targeted drug therapy because they block a specific protein on the cancer cell to keep it from growing.

Immune checkpoint inhibitors for oral cavity and oropharyngeal cancers

An important part of the immune system is its ability to keep itself from attacking normal cells in the body. To do this, it uses “checkpoints,” proteins on immune cells that need to be turned on (or off) to start an immune response. Cancer cells sometimes use these checkpoints to avoid being attacked by the immune system.

Drugs that target these checkpoints (called checkpoint inhibitors) can be used to treat some people with oral cavity or oropharyngeal cancer.

PD-1 inhibitors

Pembrolizumab (Keytruda) and nivolumab (Opdivo) are drugs that target PD-1, a protein on T cells in the immune system. PD-1 normally helps keep T cells from attacking other cells. By blocking PD-1, these drugs boost the immune response against cancer cells. This can shrink some tumors or slow their growth.

These drugs can be used after chemotherapy stops working in people with oral cavity or
oropharyngeal cancer that has returned after treatment (recurrent) or that has spread to other parts of the body (metastatic). Nivolumab is given as an intravenous (IV) infusion every 2 or 4 weeks. Pembrolizumab is given as an IV infusion every 3 or 6 weeks.

Pembrolizumab, alone or with chemotherapy, is also an option as the first treatment in some people whose cancer has recurred, is metastatic, or cannot be removed with surgery. It is given as an IV infusion every 3 or 6 weeks.

**Possible side effects of PD-1 inhibitors**

*Side effects* of these drugs can include fatigue, cough, nausea, diarrhea, skin rash, loss of appetite, constipation, joint pain, and itching.

Other, more serious side effects occur less often.

**Infusion reactions:** Some people might have an infusion reaction while getting these drugs. This is like an allergic reaction, and can cause fever, chills, flushing of the face, rash, itchy skin, feeling dizzy, wheezing, and trouble breathing. It’s important to tell your doctor or nurse right away if you have any of these symptoms while getting these drugs.

**Autoimmune reactions:** These drugs work by removing one of the safeguards of the body’s immune system. Sometimes the immune system starts attacking other parts of the body, which can cause serious or even life-threatening problems in the lungs, intestines, liver, hormone-making glands, kidneys, nerves, skin, or other organs.

It’s very important to report any new side effects during or after treatment with any of these drugs to your health care team promptly. If serious side effects do occur, you might need to stop treatment and take high doses of corticosteroids to suppress your immune system.

**More information about immunotherapy**

To learn more about how drugs that work on the immune system are used to treat cancer, see *Cancer Immunotherapy*.

To learn about some of the side effects listed here and how to manage them, see *Managing Cancer-related Side Effects*.

**Hyperlinks**
Palliative Treatment for Oral Cavity and Oropharyngeal Cancer

Many treatments for oral cavity and oropharyngeal cancer are intended to remove or to destroy the cancer cells or slow their growth. For patients, maintaining their quality of
life for as long as possible is another important goal of treatment. This is true for people being treated to try to cure the cancer and for people whose cancer is too advanced to be cured.

Supportive care can help ease physical symptoms from the cancer or its treatment, can help people cope with feelings they might have related to the diagnosis, and can also support caregivers. Supportive care works best if it is added to a person's care early on in their diagnosis, especially for those people with advanced cancer\(^1\). Some studies show it may even help people live longer.

**Pain management and oral cavity and oropharyngeal cancer**

Pain is a significant concern for many people with cancer. It can almost always be treated with milder drugs like ibuprofen or acetaminophen or, if needed, with stronger medicines like morphine or drugs like it (known as *opioids*). Sometimes, procedures like surgery, a nerve block, or radiation might be options to lessen pain. For more on pain, what can be done about it, and how to keep track of it, see *Cancer Pain*\(^2\).

**Nutrition and oral cavity and oropharyngeal cancer**

Keeping healthy through nutrition is another important concern for people with oral cavity or oropharyngeal cancers. Both the cancer and its treatment can make it hard to swallow and to eat or drink. If this is the case, a feeding tube may be needed. (See *Surgery for Oral and Oropharyngeal Cancer*.) This tube will most likely be needed during treatment, but in some cases it might need to be left in longer. For more about what to eat during cancer treatment, see *Nutrition for People with Cancer*\(^3\).

There are many other ways your cancer care team can help you maintain your quality of life and help control your symptoms. But you have to tell your team how you're feeling and what symptoms you're having. Some people don't like to disappoint their doctors by telling them they're not feeling well. Others just don't want to complain. This is not helpful to you or your treatment goals. Tell your doctor how you really feel. Talking about the symptoms you're having lets your doctor give treatments or medicines that can help relieve them which can help you handle treatment better. You will probably feel better and be able to focus on the things that are important to you.

For more information on palliative care, see *Palliative or Supportive Care*\(^4\).

To learn more about side effects and how to manage them, see *Managing Cancer-related Side Effects*\(^5\).
Treatment Options for Oral Cavity and Oropharyngeal Cancer by Stage

Treatment for oral cavity cancer is based largely on the stage (extent) of the cancer, but other factors can also be important.

Most experts agree that treatment in a clinical trial should be considered for any cancer in the head and neck area. This way, people might have the chance of getting new treatments that may be better than standard ones.

Stage 0 (carcinoma in situ) oral cavity cancer

Although cancer in this stage is on the surface layer and has not started to grow into deeper layers of tissue, it can do so if not treated. The usual treatment is surgery (usually Mohs surgery, surgical stripping, or thin resection) to remove the top layers of tissue along with a small margin (edge) of normal tissue. Follow-up is important to watch for any signs that the cancer has come back. Carcinoma in situ that keeps coming back after surgery may also need to be treated with radiation therapy.

Nearly all people with this stage survive a long time without the need for more treatment. Still, it’s important to note that continuing to smoke increases the risk that a new cancer will develop. If you’re thinking about quitting smoking and need help, talk...
to your doctor, or call the American Cancer Society at 1-800-227-2345 for information and support.

**Stages I and II oral cavity cancer**

Most patients with stage I or II oral cavity cancers do well when treated with surgery and/or radiation therapy. Chemotherapy (chemo) given along with radiation (called chemoradiation) is another option. Both surgery and radiation work equally well in treating these cancers. The choice depends on your preferences and the expected side effects, including how the treatment might affect how you look and how you swallow and speak.

**Lip**

Surgery is preferred for small cancers that can be removed. Radiation alone may also be used as the first treatment.

Large or deep cancers often require surgery. If needed, reconstructive surgery can help correct the defect in the lip.

If the tumor is thick, it increases the possibility that the cancer might have spread to lymph nodes in the neck. If abnormal lymph nodes are felt or seen on an imaging test, the surgeon might remove them (called lymph node dissection) so they can be checked for cancer spread.

**Oral cavity**

For cancers of the floor of the mouth, front of the tongue, inside of the cheek, gums, and hard palate, surgery is the main treatment. Lymph nodes in the neck might be removed (called lymph node dissection) to check them for cancer spread. If it looks like surgery hasn't completely removed the cancer or if there is a high chance of it coming back, radiation alone or chemoradiation might be added.

Radiation can be used instead of surgery as the main treatment for some people. This is most often done for people who can’t have surgery because of other medical problems.

**Stages III and IVA oral cavity cancer**

These cancers in the floor of the mouth, front of the tongue, inside of the cheek, gums,
and hard palate include bigger cancers, those that have grown into nearby tissues, and/or those that have spread to nearby lymph nodes in the neck. Surgery is usually done first and includes taking out some of the neck lymph nodes (lymph node dissection). Surgery is most often followed by radiation alone or chemoradiation.

**Stages IVB and IVC oral cavity cancer**

Stage IVB cancers have already spread into nearby tissues, structures, and maybe lymph nodes. Stage IVC cancers have spread to other parts of the body, such as the lungs.

People with stage IVB cancers that cannot be removed by surgery or who are too weak for surgery might be treated with radiation alone. Depending on a person’s overall health, chemoradiation or chemotherapy first followed by radiation might be options. Chemotherapy alone may also be recommended.

Stage IVC cancers are usually treated with chemo, cetuximab, or both. Immunotherapy, alone or with chemo, might be another option. Treatments such as radiation can also be used to help relieve symptoms from the cancer or to help prevent new problems.

**Recurrent oral cavity cancer**

When cancer comes back after treatment, it’s called recurrent cancer. It can come back in or near the same place the cancer first started (local), in nearby lymph nodes (regional), or it can spread to other organs such as the lungs or bone (distant). Treatment options for recurrent cancers depend on the location and size of the cancer, what treatments have already been used, and the person’s general health. Because these cancers can be hard to treat, clinical trials of newer treatments may be a good option for some people.

If the cancer comes back in the same area and radiation therapy was used as the first treatment, surgery is often the next treatment, if the cancer can be removed completely and the patient is healthy enough for surgery. Usually, external beam radiation therapy cannot be repeated in the same site except in certain cases. But internal radiation (brachytherapy) can often be used to control the cancer if it has come back in the place it started. If surgery was used first, more surgery, radiation therapy, chemo, cetuximab, immunotherapy, or a combination of these may be options.

If the cancer comes back in the lymph nodes in the neck, the nodes are often removed with surgery (lymph node dissection). This may be followed by radiation or chemoradiation.
If the cancer comes back in a distant area, chemo (and/or cetuximab) is often used. **Immunotherapy** with or without chemo might be an option as well. These treatments may shrink or slow the growth of some cancers for a while and help relieve symptoms, but these cancers are very hard to cure.

If further treatment is recommended, it’s important to talk to your doctor so that you understand what the goal of treatment is — whether it’s to try to cure the cancer or to **keep it under control** for as long as possible and to relieve symptoms. This can help you weigh the risks and benefits of each treatment.

**Hyperlinks**


**References**


Treatment Options for Oropharyngeal Cancer by Stage

This information is based on AJCC Staging systems prior to 2018 which were primarily based on tumor size and lymph node status. Since the updated staging system for oropharyngeal cancer now also includes the p16 (HPV) status of the tumor, the stages may be higher or lower than previous staging systems. Treatment strategies are slowly changing with this new staging system so you should discuss your stage and treatment options with your physician.

Treatment for oropharyngeal cancer is based largely on the stage (extent) of the cancer and if it is caused by an HPV infection (p16-positive), but other factors can also be important.

Most experts agree that treatment in a clinical trial should be considered for any cancer in the head and neck areas. This way, people might have a chance to get new treatments that may be better than standard ones.

Stage 0 (carcinoma in situ) oropharyngeal cancer

Although cancer in this stage is on the surface layer and has not started to grow into deeper layers of tissue, it can do so if not treated. The usual treatment is surgery (usually Mohs surgery, surgical stripping, or thin resection) to remove the top layers of tissue along with a small margin (edge) of normal tissue. Close follow-up is important to watch for any signs that the cancer has come back. Carcinoma in situ that keeps coming back after surgery may need to be treated with radiation therapy.

Nearly all people with this stage live a long time without the need for more treatment. Still, it's important to note that continuing to smoke increases the risk that a new cancer will develop. If you're thinking about quitting smoking and need help, talk to your doctor, or call the American Cancer Society at 1-800-227-2345 for information and support.
Early-stage oropharyngeal cancer

Early-stage oropharyngeal cancers (back of the tongue, soft palate, and tonsils) typically include most stage I and II (p16/HPV-positive and p16/HPV-negative) cancers. The main treatment options include radiation therapy aimed at the cancer and the lymph nodes in the neck or surgery of the main tumor along with removal of the lymph nodes in the neck (lymph node dissection). After surgery, if any cancer remains or if there is a high chance of the cancer coming back, chemoradiation is often used. Sometimes, if imaging or a biopsy shows the lymph nodes in the neck have cancer, then chemoradiation might be the first treatment.

Locally advanced oropharyngeal cancer

Locally advanced oropharyngeal cancers are larger cancers in the back of the tongue, soft palate, and tonsils that have grown into nearby tissues, and/or have spread to nearby lymph nodes in the neck. In general, this would include most stage III, IVA, and IVB p16/HPV-negative cancers and most stage I, II and III p16/HPV-positive cancers in the TNM system.

Most locally advanced oropharyngeal cancers (p16/HPV-positive or p16/HPV-negative) are treated with chemoradiation. Surgery might also be an option if the surgeon thinks that the cancer can be removed safely. The choice of treatment is often guided by where the cancer is, how much it has spread, the expected side effects, patient preferences, and the patient’s current health status.

Any cancer that is still present after chemoradiation is often removed with surgery. If the cancer has spread to neck lymph nodes, they may also need to be removed (a lymph node dissection) after chemoradiation is done. Sometimes, chemo might be given as the first treatment, followed by radiation alone or chemoradiation, and then surgery if needed.

Metastatic oropharyngeal cancer

Metastatic oropharyngeal cancers (back of the tongue, soft palate, and tonsils) include stage IVC p16/HPV-negative cancers and stage IV p16/HPV-positive cancers that have spread to other parts of the body, such as the lungs. These cancers are usually treated with chemo, cetuximab, or both. Immunotherapy, alone or with chemo, might be another option. Treatments such as radiation may also be used to help relieve symptoms from the cancer or to help prevent new problems.
Recurrent oropharyngeal cancer

When cancer comes back after treatment, it's called recurrent cancer. It can come back in or near the same place the cancer first started (local), in nearby lymph nodes (regional), or it can spread to other organs such as the lungs or bone (distant). Treatment options for recurrent cancers depend on the location and size of the cancer, what treatments have already been used, and the person’s general health. Because these cancers can be hard to treat, clinical trials of newer treatments may be a good option for some people.

Treatment options for recurrent oropharyngeal cancer are the same as for recurrent oral cavity cancer.

Hyperlinks

4. [www.cancer.org/treatment/understanding-your-diagnosis/advanced-cancer/what-is.html](http://www.cancer.org/treatment/understanding-your-diagnosis/advanced-cancer/what-is.html)

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