Esophagus Cancer Early Detection, Diagnosis, and Staging

Detection and Diagnosis

Catching cancer early often allows for more treatment options. Some early cancers may have signs and symptoms that can be noticed, but that is not always the case.

- Can Esophageal Cancer Be Found Early?
- Signs and Symptoms of Esophageal Cancer
- Tests for Esophageal Cancer
- Understanding Your Pathology Report

Stages and Outlook (Prognosis)

After a cancer diagnosis, staging provides important information about the extent of cancer in the body and anticipated response to treatment.

- Esophageal Cancer Stages
- Survival Rates for Esophageal Cancer

Questions to Ask About Esophageal Cancer

Here are some questions you can ask your cancer care team to help you better understand your cancer diagnosis and treatment options.

- Questions to Ask About Esophageal Cancer
Can Esophageal Cancer Be Found Early?

*Screening* is the process of looking for cancer or pre-cancer in people who have no symptoms of the disease. In the United States, screening the general public for esophageal cancer is not recommended by any professional organization at this time. This is because no screening test has been shown to lower the risk of dying from esophageal cancer in people who are at average risk.

However, people who have a high *risk of esophageal cancer*\(^1\), such as those with Barrett’s esophagus, are often followed closely to look for early cancers and precers.

**Testing people at high risk**

**Barrett’s esophagus**

Many experts recommend that people with a high risk of esophageal cancer, such as those with Barrett’s esophagus, have upper endoscopy regularly. For this test, the doctor looks at the inside of the esophagus through a flexible lighted tube called an *endoscope*. (see Tests for Esophageal Cancer.) The doctor may remove small samples of tissue (biopsies) from the abnormal area so that they can be checked for dysplasia (pre-cancer cells) or cancer cells.

Doctors aren’t certain how often the test should be repeated, but most recommend testing more often if areas of dysplasia are found. This testing is repeated even more often if there is high-grade dysplasia (the cells appear very abnormal).

If the area of Barrett’s is large and/or there is high-grade dysplasia, treatment of the abnormal area might be advised because of the high risk that an adenocarcinoma is either already present (but was not found) or will develop within a few years. Treatment options for high-grade dysplasia might include surgery to remove part of the esophagus with the abnormal area, endoscopic mucosal resection (EMR), photodynamic therapy (PDT), or radiofrequency ablation (RFA). See *Endoscopic Treatments for Esophageal Cancer*\(^2\). The outlook for these patients is relatively good after treatment.

**Inherited syndromes**

People with *inherited syndromes*\(^3\) (sometimes called *hereditary syndromes*) that put
them at increased risk of developing esophageal cancer, might also need frequent endoscopies to look for cancer or pre-cancer. For example, people with tylosis or Bloom syndrome should consider screening with an upper endoscopy after turning 20 years old. People who have family members with familial (inherited) Barrett’s esophagus should consider screening with an upper endoscopy after 40 years old. If you have one of these inherited syndromes, it is best to speak with your doctor about cancer screening and what is right for you.

Careful monitoring and treatment (if needed) may help prevent some esophageal cancers from developing. It may also detect some cancers early, when they are more likely to be treated successfully.

Hyperlinks


References


PDQ® Screening and Prevention Editorial Board. PDQ Esophageal Cancer Screening. Bethesda, MD: National Cancer Institute. Updated 09/26/2019. Available at:


References


Signs and Symptoms of Esophageal Cancer

Most people with esophageal cancer are diagnosed because they have symptoms. It’s rare for people without symptoms to be diagnosed with this cancer. When it does happen, the cancer is usually found by accident because of tests done for other medical problems.

Unfortunately, most esophageal cancers do not cause symptoms until they have reached an advanced stage, when they are harder to treat.

The most common symptoms of esophageal cancer are:

- Trouble swallowing
- Chest pain
- Weight loss
- Hoarseness
• Chronic cough
• Vomiting
• Bone pain (if cancer has spread to the bone)
• Bleeding into the esophagus. This blood then passes through the digestive tract, which may turn the stool black. Over time, this blood loss can lead to anemia (low red blood cell levels), which can make a person feel tired.

Having one or more symptoms does not mean you have esophageal cancer. In fact, many of these symptoms are more likely to be caused by other conditions. Still, if you have any of these symptoms, especially trouble swallowing, it’s important to have them checked by a doctor so that the cause can be found and treated, if needed.

Trouble swallowing

The most common symptom of esophageal cancer is a problem swallowing (called dysphagia). It can feel like the food is stuck in the throat or chest, and can even cause someone to choke on their food. This is often mild when it starts, and then gets worse over time as the cancer grows and the opening inside the esophagus gets smaller.

When swallowing becomes harder, people often change their diet and eating habits without realizing it. They take smaller bites and chew their food more carefully and slowly. As the cancer grows larger, the problem can get worse. People then might start eating softer foods that can pass through the esophagus more easily. They might avoid bread and meat, since these foods typically get stuck. The swallowing problem may even get bad enough that some people stop eating solid food completely and switch to a liquid diet. If the cancer keeps growing, at some point even liquids might be hard to swallow.

To help pass food through the esophagus, the body makes more saliva. This causes some people to complain of bringing up lots of thick mucus or saliva (spit).

Chest pain

Sometimes, people have pain or discomfort in the middle part of their chest. Some people get a feeling of pressure or burning in the chest. These symptoms are more often caused by problems other than cancer, such as heartburn, so they are rarely seen as a signal that a person might have cancer.

Swallowing may become painful if the cancer is large enough to limit the passage of food through the esophagus. The medical term for painful swallowing is
*odyndophagia.* Pain may be felt a few seconds after swallowing, as food or liquid reaches the tumor and has trouble getting around it.

**Weight loss**

Many people with esophageal cancer lose weight without trying to. This happens because their swallowing problems keep them from eating enough to maintain their weight. The cancer might also decrease their appetite and increase their metabolism.

**References**


**References**


Tests for Esophageal Cancer

Esophagus cancers are usually found because of signs or symptoms a person is having. If esophagus cancer is suspected, exams, tests, and a biopsy (a sample of esophagus cells) will be needed to confirm the diagnosis. If cancer is found, further tests will be done to help determine the extent (stage) of the cancer.

Medical history and physical exam

If you have symptoms that might be caused by esophageal cancer, the doctor will ask about your medical history to learn about your symptoms and possible risk factors.¹

Your doctor will also examine you closely to look for possible signs of esophageal cancer and other health problems.

If the results of your history and physical exam suggest you might have esophageal cancer, more tests will be done. These could include imaging tests and/or biopsies of the esophagus. You may also be referred to a gastroenterologist (a doctor specializing in digestive system diseases) for further tests and treatment.

Imaging tests for esophagus cancer

Imaging tests² use x-rays, magnetic fields, sound waves, or radioactive substances to create pictures of the inside of your body. Imaging tests might be done for a number of reasons both before and after a diagnosis of esophageal cancer, including:
• To look at a suspicious area that might be cancer
• To learn how far cancer might have spread
• To help determine if the treatment is working
• To look for possible signs of cancer coming back after treatment

Barium swallow test

If you’re having trouble swallowing, sometimes a barium swallow is the first test done. In this test, you will be asked to swallow a thick, chalky liquid called barium to coat the walls of the esophagus. When x-rays are taken, the barium outlines the esophagus. This test can be done by itself, or as a part of a series of x-rays called an upper gastrointestinal (GI) series, that includes the stomach and part of the intestine.

A barium swallow test can show any abnormal areas in the normally smooth inner lining of the esophagus, but it can’t be used to determine how far a cancer may have spread outside of the esophagus.

This test can show even small, early cancers. Early cancers can look like small round bumps or flat, raised areas (called plaques), while advanced cancers look like large irregular areas and can cause narrowing of the inside of the esophagus.

This test can also be used to diagnose one of the more serious complications of esophageal cancer called a tracheo-esophageal fistula. This occurs when the tumor destroys the tissue between the esophagus and the trachea (windpipe) and creates a hole connecting them. Anything that is swallowed can then pass from the esophagus into the windpipe and lungs. This can lead to frequent coughing, gagging, or even pneumonia. This problem can be helped with surgery or an endoscopy procedure.

Computed tomography (CT) scan

A CT scan uses x-rays to make detailed cross-sectional images of your body. Instead of taking 1 or 2 pictures, like a regular x-ray, a CT scanner takes many pictures and a computer then combines them to show a slice of the part of your body being studied.

This test can help tell if esophageal cancer has spread to nearby organs and lymph nodes (bean-sized collections of immune cells to which cancers often spread first) or to distant parts of the body.

Before the test, you may be asked to drink 1 to 2 pints of a liquid called oral contrast. This helps outline the esophagus and intestines. If you are having any trouble
swallowing, you need to tell your doctor before the scan.

**CT-guided needle biopsy:** If a suspected area of cancer is deep within your body, a CT scan might be used to guide a biopsy needle into this area to get a tissue sample to check for cancer.

**Magnetic resonance imaging (MRI) scan**

Like CT scans, MRI scans\(^5\) show detailed images of soft tissues in the body. But MRI scans use radio waves and strong magnets instead of x-rays. MRI can also be used to look for possible cancer spread to the brain and spinal cord.

**Positron emission tomography (PET) scan**

For a PET scan, a slightly radioactive form of sugar (known as FDG) is injected into the blood and collects mainly in cancer cells. These areas of radioactivity can be seen on a PET scan using a special camera.

**PET/CT scan:** Sometimes a PET scan is combined with a CT scan using a special machine that can do both at the same time. This lets the doctor compare areas of higher radioactivity on the PET scan with the more detailed picture of that area on the CT scan.

PET/CT scans can be useful:

- In diagnosing esophageal cancer.
- If your doctor thinks the cancer might have spread but doesn’t know where. They can show spread of cancer to the liver, bones, or some other organs. They are not as useful for looking at the brain or spinal cord.

**Endoscopy**

An endoscope is a flexible, narrow tube with a tiny video camera and light on the end that is used to look inside the body. Tests that use endoscopes can help diagnose esophageal cancer or determine the extent of its spread.

**Upper endoscopy**

This is an important test for diagnosing esophageal cancer. During an upper
endoscopy, you are sedated (made sleepy) and then the doctor passes an endoscope (a thin, flexible tube with a light and a small video camera on the end) down your throat and into the esophagus and stomach. The endoscope’s camera is connected to a monitor, which lets the doctor see any abnormal areas in the wall of the esophagus clearly.

The doctor can use special instruments through the scope to remove (biopsy) tissue samples from any abnormal areas. These samples are sent to the lab to check if they contain cancer.

If the esophageal cancer is blocking the opening (called the lumen) of the esophagus, certain instruments can be used to help enlarge the opening to help food and liquid pass.

Upper endoscopy can give the doctor important information about the size and spread of the tumor, which can be used to help determine if the tumor can be removed with surgery.

**Endoscopic ultrasound**

This test is usually done at the same time as the upper endoscopy. For an endoscopic ultrasound, a probe that gives off sound waves is at the end of an endoscope. This allows the probe to get very close to tumors in the esophagus. This test is very useful in determining the size of an esophageal cancer and how far it has grown into nearby areas. It can also help show if nearby lymph nodes might be affected by the cancer. If enlarged lymph nodes are seen on the ultrasound, the doctor can pass a thin, hollow needle through the endoscope to get biopsy samples of them. This helps the doctor decide if the tumor can be removed with surgery.

**Bronchoscopy**

This exam may be done for cancer in the upper part of the esophagus to see if it has spread to the trachea (windpipe) or the bronchi (tubes leading from the windpipe into the lungs).

**Thoracoscopy and laparoscopy**

These exams let the doctor see lymph nodes and other organs near the esophagus inside the chest (by thoracoscopy) or the abdomen (by laparoscopy) through a hollow lighted tube and can be used to get biopsy samples.
These procedures are done in an operating room while you are under general anesthesia (in a deep sleep). A small incision (cut) is made in the side of the chest wall (for thoracoscopy) or the abdomen (for laparoscopy). Sometimes more than one cut is made. The doctor then inserts a scope (a thin, lighted tube with a small video camera on the end) through the incision to view the space around the esophagus. The surgeon can pass thin tools into the space to remove lymph nodes and biopsy samples to see if the cancer has spread. This information is often important in deciding whether a person is likely to benefit from surgery.

**Lab tests of biopsy samples**

Usually if a suspected esophageal cancer is found on endoscopy or an imaging test, it is biopsied. In a biopsy, the doctor removes a small piece of tissue with a cutting instrument passed through the scope.

**HER2 testing:** If esophageal cancer is found but is too advanced for surgery, your biopsy samples may be tested for the HER2 gene or protein. Some people with esophageal cancer make too much of the HER2 protein or gene which helps the cells grow. A drug called trastuzumab (Herceptin) that targets the HER2 protein may help treat these advanced cancers when used along with chemotherapy. Only cancers that have too much of the HER2 gene or protein are likely to benefit from this drug, which is why doctors may test tumor samples for it. (See Targeted Therapy for Esophageal Cancer.)

**PD-L1 testing:** An esophageal cancer that cannot be treated with surgery or has spread to distant sites may be tested to see if it makes a checkpoint protein called PD-L1. This protein is found in 35% to 45% of esophageal cancers. Tumors that make this protein might be treated with the immunotherapy drug pembrolizumab.

**MMR and MSI testing:** Esophageal cancer cells might be tested to see if they show high levels of gene changes called microsatellite instability (MSI), or if they have changes in any of the mismatch repair (MMR) genes (MLH1, MSH2, MSH6, and PMS2).

Esophageal cancers that test positive for MMR or high MSI and cannot be treated with surgery, have come back after initial treatment, or have spread to other parts of the body might benefit from immunotherapy with the drug pembrolizumab.

See Testing Biopsy and Cytology Specimens for Cancer to learn more about the types of biopsies, how the tissue is used in the lab to diagnose cancer, and what the results may show.
**Blood tests**

Your doctor might order certain blood tests if they think you have esophageal cancer.

**Complete blood count (CBC):** This test measures the different types of cells in your blood. It can show if you have anemia (too few red blood cells). Some people with esophageal cancer have low red blood cell counts because the tumor has been bleeding.

**Liver enzymes:** You may also have a blood test to check your liver function, because esophageal cancer can spread to the liver.

**Hyperlinks**

2. [www.cancer.org/treatment/understanding-your-diagnosis/tests/imaging-radiology-tests-for-cancer.html](http://www.cancer.org/treatment/understanding-your-diagnosis/tests/imaging-radiology-tests-for-cancer.html)
5. [www.cancer.org/treatment/understanding-your-diagnosis/tests/mri-for-cancer.html](http://www.cancer.org/treatment/understanding-your-diagnosis/tests/mri-for-cancer.html)
6. [www.cancer.org/treatment/understanding-your-diagnosis/tests/endoscopy.html](http://www.cancer.org/treatment/understanding-your-diagnosis/tests/endoscopy.html)
8. [www.cancer.org/treatment/understanding-your-diagnosis/tests/endoscopy/thoracoscopy.html](http://www.cancer.org/treatment/understanding-your-diagnosis/tests/endoscopy/thoracoscopy.html)

**References**


References


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Esophageal Cancer Stages

After someone is diagnosed with esophageal cancer, doctors will try to figure out if it has spread, and if so, how far. This process is called staging. The stage of a cancer describes how much cancer is in the body. It helps determine how serious the cancer is and how best to treat it. Doctors also use a cancer’s stage when talking about survival statistics.

The earliest stage esophageal cancers are called stage 0 (high grade dysplasia). It then ranges from stage I (1) through IV (4). As a rule, the lower the number, the less the cancer has spread. A higher number, such as stage IV, means cancer has spread more. And within a stage, an earlier letter means a lower stage. Although each person’s cancer experience is unique, cancers with similar stages tend to have a similar outlook and are often treated in much the same way.

Most esophageal cancers start in the innermost lining of the esophagus (the epithelium) and then grow into deeper layers over time.

How is the stage determined?

The staging system most often used for esophageal cancer is the American Joint Committee on Cancer (AJCC) TNM system, which is based on 3 key pieces of information:

- The extent (size) of the tumor (T): How far has the cancer grown into the wall of the esophagus? Has the cancer reached nearby structures or organs? (See What Is Cancer of the Esophagus? to learn about the layers of the esophagus wall.)
- The spread to nearby lymph nodes (N): Has the cancer spread to nearby lymph nodes?
- The spread (metastasis) to distant sites (M): Has the cancer spread to distant lymph nodes or distant organs such as the lungs or liver?

Numbers or letters after T, N, and M provide more details about each of these factors. Higher numbers mean the cancer is more advanced. Once a person’s T, N, and M categories have been determined, this information is combined in a process called stage grouping to assign an overall stage. For more information see Cancer Staging.

Staging systems for esophageal cancer
Since esophageal cancer can be treated in different ways, different staging systems have been created for each situation:

- **Pathological stage** (also called the *surgical stage*): If surgery is done first, the pathological stage is determined by examining tissue removed during an operation. This is the most common system used.
- **Clinical stage**: If surgery might not be possible or will be done after other treatment is given, then the clinical stage is determined based on the results of a physical exam, biopsy, and imaging tests. The clinical stage will be used to help plan treatment, but it might not predict outlook as accurately as the pathologic stage. This is because sometimes the cancer has spread further than the clinical stage estimates.
- **Postneoadjuvant stage**: If chemotherapy or radiation is given before surgery (this is called *neoadjuvant therapy*), then a separate postneoadjuvant stage will be determined after surgery.

Since most cancers are staged with the pathological stage, we have included that staging system in the tables below. If your cancer has been clinically staged or if you have had neoadjuvant therapy, it is best to talk to your doctor about your specific stage for those situations.

**Grade**

Another factor that can affect your treatment and your outlook is the grade of your cancer. The grade describes how closely the cancer looks like normal tissue when seen through a microscope.

The scale used for grading esophagus cancers is from 1 to 3.

- **GX**: The grade cannot be evaluated. (The grade is unknown).
- **Grade 1 (G1: well differentiated; low grade)** means the cancer cells look more like normal esophagus cells.
- **Grade 3 (G3: poorly differentiated, undifferentiated; high grade)** means the cancer cells look very abnormal.
- **Grades 2 (G2: moderately differentiated; intermediate)** falls somewhere in between Grade 1 and Grade 3.

Low-grade cancers tend to grow and spread more slowly than high-grade cancers. Most of the time, the outlook is better for low-grade cancers than it is for high-grade cancers.
of the same stage.

**Location**

Some stages of early squamous cell carcinoma also take into account where the tumor is in the esophagus. The location is assigned as either *upper*, *middle*, or *lower* based on where the middle of the tumor is.

**Esophageal cancer stage descriptions**

The tables below are simplified versions of the TNM system, based on the most recent AJCC systems effective January 2018. They include staging systems for *squamous cell carcinoma* and *adenocarcinoma*. It’s important to know that esophageal cancer staging can be complex. If you have any questions about the stage of your cancer or what it means, please ask your doctor to explain it to you in a way you understand.

**Squamous Cell Carcinoma Stages**

<table>
<thead>
<tr>
<th>AJCC Stage</th>
<th>Stage description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The cancer is only in the epithelium (the top layer of cells lining the inside of the esophagus). It has not started growing into the deeper layers. This stage is also known as high-grade dysplasia. It has not spread to any lymph nodes or distant organs.</td>
</tr>
<tr>
<td></td>
<td>The cancer grade does not apply. The cancer can be located anywhere in the esophagus.</td>
</tr>
<tr>
<td>IA</td>
<td>The cancer is growing into the lamina propria or muscularis mucosa (the tissue under the epithelium). It has not spread to any lymph nodes or distant organs.</td>
</tr>
<tr>
<td>IB</td>
<td>The cancer is growing into the lamina propria, muscularis mucosa (the tissue under the epithelium), submucosa or the thick muscle layer (muscularis propria). It has not spread to nearby lymph nodes or to distant organs.</td>
</tr>
<tr>
<td>Stage</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| IIA   | The cancer can be any grade or an unknown grade and located anywhere in the esophagus.  
   The cancer is growing into the thick muscle layer (muscularis propria). It has not spread to nearby lymph nodes or to distant organs.  
   The cancer can be grade 2 or 3 or an unknown grade and located anywhere in the esophagus.  
   OR  
   The cancer is growing into the outer layer of the esophagus (the adventitia). It has not spread to nearby lymph nodes or to distant organs.  
   The cancer can be any of the following:  
   - Any grade and located in the lower esophagus OR  
   - Grade 1 and located in the upper or middle esophagus. |
| IIB   | The cancer is growing into the outer layer of the esophagus (the adventitia). It has not spread to nearby lymph nodes or to distant organs.  
   The cancer can be any of the following:  
   - Grade 2 or 3 and located in the upper or middle of the esophagus OR  
   - An unknown grade and located anywhere in the esophagus OR  
   - Any grade and have an unknown location in the esophagus.  
   OR  
   The cancer is growing into the lamina propria, muscularis mucosa (the tissue under the epithelium) or into the submucosa. It has spread to 1 or 2 nearby lymph nodes.  
   The cancer can be any grade and located anywhere in the esophagus. |
| IIIA  | The cancer is growing into the lamina propria, muscularis mucosa (the tissue under the epithelium) or into the submucosa. It has spread to 1 or 2 nearby lymph nodes.  
   The cancer can be any grade and located anywhere in the esophagus. |
mucosa (the tissue under the epithelium), submucosa or the thick muscle layer (muscularis propria). It has spread to no more than 6 nearby lymph nodes. It has not spread to distant organs.

The cancer can be any grade and located anywhere in the esophagus.

<table>
<thead>
<tr>
<th>Stage IIIB</th>
</tr>
</thead>
<tbody>
<tr>
<td>The cancer is growing into:</td>
</tr>
<tr>
<td>• The thick muscle layer (muscularis propria) and spread to no more than 6 nearby lymph nodes OR</td>
</tr>
<tr>
<td>• The outer layer of the esophagus (the adventitia) and spread to no more than 6 nearby lymph nodes OR</td>
</tr>
<tr>
<td>• The pleura (the thin layer of tissue covering the lungs), the pericardium (the thin sac surrounding the heart), or the diaphragm (the muscle below the lungs that separates the chest from the abdomen) and spread to no more than 2 nearby lymph nodes.</td>
</tr>
</tbody>
</table>

It has not spread to distant organs.

The cancer can be any grade and located anywhere in the esophagus.

<table>
<thead>
<tr>
<th>Stage IVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>The cancer is growing into:</td>
</tr>
<tr>
<td>• The pleura (the thin layer of tissue covering the lungs), the pericardium (the thin sac surrounding the heart), or the diaphragm (the muscle below the lungs that separates the chest from the abdomen) and spread to no more than 6 nearby lymph nodes OR</td>
</tr>
<tr>
<td>• The trachea (windpipe), the aorta (the large blood vessel coming from the heart), the spine, or other crucial structures and no more than 6 nearby lymph nodes OR</td>
</tr>
<tr>
<td>• Any layers of the esophagus and spread to 7 or more nearby lymph nodes.</td>
</tr>
</tbody>
</table>

It has not spread to distant organs.

The cancer can be any grade and located anywhere in the esophagus.
esophagus.

<table>
<thead>
<tr>
<th>AJCC Stage</th>
<th>Stage description</th>
</tr>
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<tbody>
<tr>
<td>0</td>
<td>The cancer is only in the epithelium (the top layer of cells lining the inside of the esophagus). It has not started growing into the deeper layers. This stage is also known as high-grade dysplasia. It has not spread to any lymph nodes or distant organs. The cancer grade does not apply.</td>
</tr>
<tr>
<td>IA</td>
<td>The cancer is growing into the lamina propria or muscularis mucosa (the tissue under the epithelium). It has not spread to any lymph nodes or distant organs. The cancer is grade 1 or an unknown grade.</td>
</tr>
<tr>
<td>IB</td>
<td>The cancer is growing into the lamina propria, muscularis mucosa (the tissue under the epithelium), or the submucosa. It has not spread to nearby lymph nodes or to distant organs. The cancer can be grade 1 or 2 or an unknown grade.</td>
</tr>
<tr>
<td>IC</td>
<td>The cancer is growing into the lamina propria, muscularis mucosa (the tissue under the epithelium), submucosa or the thick muscle layer (muscularis propria). It has not spread to nearby lymph nodes or to distant organs. The cancer can be grade 1, 2 or 3.</td>
</tr>
<tr>
<td>IVB</td>
<td>The cancer has spread to distant lymph nodes and/or other organs, such as the liver and lungs. The cancer can be any grade and located anywhere in the esophagus.</td>
</tr>
</tbody>
</table>

**Adenocarcinoma stages**

The location of the cancer in the esophagus does not affect the stage of adenocarcinomas.
IIA
- The cancer can be grade 3 or an unknown grade.

IIB
- The cancer is growing into the lamina propria, muscularis mucosa (the tissue under the epithelium), or the submucosa. It has spread to 1 or 2 nearby lymph nodes. It has not spread to distant organs.
- The cancer can be any grade.
- OR
- The cancer is growing into the outer layer of the esophagus (the adventitia). It has not spread nearby lymph nodes.
- The cancer can be any grade.

IIIA
- The cancer is growing into the lamina propria, muscularis mucosa (the tissue under the epithelium), the submucosa, or the thick muscle layer (muscularis propria).
- It has spread to no more than 6 nearby lymph nodes. It has not spread to distant organs.
- The cancer can be any grade.

IIIB
- The cancer is growing into:
  - The thick muscle layer (muscularis propria) and spread to no more than 6 nearby lymph nodes OR
  - The outer layer of the esophagus (the adventitia) and spread to no more than 6 nearby lymph nodes OR
  - The pleura (the thin layer of tissue covering the lungs), the pericardium (the thin sac surrounding the heart), or the diaphragm (the muscle below the lungs that separates the chest from the abdomen) and spread to no more than 2 nearby lymph nodes.
- It has not spread to distant organs.
- The cancer can be any grade.

IVA
- The cancer is growing into:
- The pleura (the thin layer of tissue covering the lungs), the pericardium (the thin sac surrounding the heart), or the diaphragm (the muscle below the lungs that separates the chest from the abdomen) and spread to no more than 6 nearby lymph nodes OR

- The trachea (windpipe), the aorta (the large blood vessel coming from the heart), the spine, or other crucial structures and no more than 6 nearby lymph nodes OR

- Any layers of the esophagus and spread to 7 or more nearby lymph nodes.

It has not spread to distant organs.

The cancer can be any grade.

IVB

The cancer has spread to distant lymph nodes and/or other organs, such as the liver and lungs. The cancer can be any grade.

Resectable versus unresectable cancer

The AJCC staging system provides a detailed summary of how far an esophageal cancer has spread. But for treatment purposes, doctors are often more concerned about whether the cancer can be removed completely with surgery (resected). If, based on where the cancer is located and how far it has spread, it could be removed completely by surgery, it is considered potentially resectable. If the cancer has spread too far to be removed completely, it is considered unresectable.

As a general rule, stage 0, I, and II esophageal cancers are potentially resectable. Most stage III cancers are potentially resectable also, even when they have spread to nearby lymph nodes, as long as the cancer has not grown into the trachea (windpipe), the aorta (the large blood vessel coming from the heart), the spine, or other nearby important structures. Unfortunately, many people whose cancer is potentially resectable might not be able to have surgery to remove their cancers because they aren’t healthy enough.

If you have localized esophageal cancer, it is often recommended that your case be discussed at a multidisciplinary meeting. In this meeting, your medical information is reviewed at one time with doctors from different specialties (for example, medical
oncology, pathology, surgery, radiation oncology) who, as a group, recommend a treatment plan for you.

Cancers that have grown into nearby structures or that have spread to distant lymph nodes or to other organs are considered unresectable, so treatments other than surgery are usually the best option.

**Hyperlinks**

3. [www.cancer.org/treatment/understanding-your-diagnosis/staging.html](http://www.cancer.org/treatment/understanding-your-diagnosis/staging.html)

**References**


References


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## Survival Rates for Esophageal Cancer

Survival rates can give you an idea of what percentage of people with the same type and stage of cancer are still alive a certain amount of time (usually 5 years) after they were diagnosed. They can’t tell you how long you will live, but they may help give you a better understanding of how likely it is that your treatment will be successful.

*Keep in mind that survival rates are estimates and are often based on previous outcomes of large numbers of people who had a specific cancer, but they can’t predict what will happen in any particular person’s case. These statistics can be confusing and may lead you to have more questions. Talk with your doctor about how these numbers may apply to you, as he or she is familiar with your situation.*

**What is a 5-year relative survival rate?**

A *relative survival rate* compares people with the same stage of esophageal cancer to people in the overall population. For example, if the 5-year *relative survival rate* for a
specific stage of esophageal cancer is 60%, it means that people who have that cancer are, on average, about 60% as likely as people who don’t have that cancer to live for at least 5 years after being diagnosed.

Where do these numbers come from?

The American Cancer Society relies on information from the SEER* database, maintained by the National Cancer Institute (NCI), to provide survival statistics for different types of cancer. The SEER database tracks 5-year relative survival rates for esophageal cancer in the United States, based on how far the cancer has spread. The SEER database, however, does not group cancers by AJCC TNM stages (stage 1, stage 2, stage 3, etc.). Instead, it groups cancers into localized, regional, and distant stages:

- **Localized** means that the cancer is growing only in the esophagus.
- **Regional** means that the cancer has spread to nearby lymph nodes or tissues.
- **Distant** means that the cancer has spread to organs or lymph nodes away from the main tumor.

5-year relative survival rates for esophageal cancer

These numbers are based on people diagnosed with esophageal cancer between 2009 and 2015.

<table>
<thead>
<tr>
<th>Stage</th>
<th>5-Year Relative Survival Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localized</td>
<td>47%</td>
</tr>
<tr>
<td>Regional</td>
<td>25%</td>
</tr>
<tr>
<td>Distant</td>
<td>5%</td>
</tr>
<tr>
<td>All SEER stages combined</td>
<td>20%</td>
</tr>
</tbody>
</table>

These survival rates do not separate squamous cell carcinomas from adenocarcinomas, although people with adenocarcinomas are generally thought to have a slightly better prognosis (outlook) overall.

Understanding the numbers
• People now being diagnosed with esophageal cancer may have a better outlook than these numbers show. Treatments improve over time, and these numbers are based on people who were diagnosed and treated at least five years earlier.

• These numbers apply only to the stage of the cancer when it is first diagnosed. They do not apply later on if the cancer grows, spreads, or comes back after treatment.

• These numbers don’t take everything into account. Survival rates are grouped based on how far the cancer has spread, but your age, overall health, how well the cancer responds to treatment, and other factors will also affect your outlook.

*SEER = Surveillance, Epidemiology, and End Results

References


References


Last Medical Review: March 20, 2020 Last Revised: March 20, 2020
Questions to Ask About Esophageal Cancer

It’s important for you to have honest, open discussions with your cancer care team. They want to answer all your questions, so that you can make informed treatment and life decisions. For instance, consider these questions:

When you’re told you have esophageal cancer

- What kind of esophageal cancer⁴ do I have?
- Where is the cancer located?
- Has the cancer spread beyond where it started?
- What is the cancer’s stage (extent), and what does that mean?
- Will I need other tests before we can decide on treatment?
- Should the cancer be checked for gene changes that could help you choose my treatment options?
- Do I need to see any other doctors or health professionals?
- If I’m concerned about the costs and insurance coverage for my diagnosis and treatment, who can help me?

When deciding on a treatment plan

- What are my treatment options²?
- What do you recommend and why?
- How much experience do you have treating this type of cancer?
- Should I get a second opinion³? How do I do that? Can you recommend someone?
- What is the goal of the treatment?
- How quickly do I need to decide on treatment?
- What should I do to be ready for treatment?
- How long will treatment last? What will it be like? Where will my treatment be done?
- What risks or side effects are there to the treatments you suggest? Are there things I can do to reduce these side effects?
- Will I need a feeding tube during treatment to help with nutrition?
- How might treatment affect my daily activities? Can I still work full time?
- What are the chances the cancer will recur (come back) with these treatment plans?
• What will we do if the treatment doesn’t work or if the cancer recurs?
• What if I have trouble getting to and from my treatments because of transportation problems?

**During treatment**

Once treatment begins, you’ll need to know what to expect and what to look for. Not all of these questions may apply to you, but asking the ones that do may be helpful.

• How will we know if the treatment is working?
• Is there anything I can do to help manage side effects?*
• What symptoms or side effects should I tell you about right away?
• How can I reach you on nights, holidays, or weekends?
• Do I need to change what I eat during treatment?
• Are there any limits on what I can do?
• Can I exercise during treatment? If so, what kind of exercise should I do, and how often?
• Can you suggest a mental health professional I can see if I start to feel overwhelmed, depressed, or distressed?*
• What if I need some social support during treatment because my family lives far away?

**After treatment**

• Do I need a special diet after treatment? Should I eat smaller, more frequent meals from now on?
• Do I need to take certain vitamins after treatment?
• Are there any limits on what I can do?
• What symptoms should I watch for?
• What kind of exercise should I do now?
• What type of follow-up will I need after treatment?
• How often will I need to have follow-up endoscopy and imaging tests?
• Will I need any blood tests?
• How will we know if the cancer has come back? What should I watch for?

Along with these sample questions, be sure to write down some of your own. For
instance, you might want more information about recovery times so you can plan your work or activity schedule. You might also want to ask if you qualify for a clinical trial6.

Doctors are not the only ones who can give you information. Other health care professionals, such as nurses and social workers, can also answer some of your questions. You can find more information about speaking with your health care team in The Doctor-Patient Relationship7.

Hyperlinks


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