Malignant Mesothelioma Early Detection, Diagnosis, and Staging

Detection and Diagnosis

Finding cancer early, when it's small and before it has spread, often allows for more treatment options. Some early cancers may have signs and symptoms that can be noticed, but that's not always the case.

- Can Malignant Mesothelioma Be Found Early?
- Signs and Symptoms of Mesothelioma
- Tests for Malignant Mesothelioma

Stages of Mesothelioma

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

- Malignant Mesothelioma Stages

Outlook (Prognosis)

Doctors often use survival rates as a standard way of discussing a person's outlook (prognosis). These numbers can't tell you how long you will live, but they might help you better understand your prognosis. Some people want to know the survival statistics for people in similar situations, while others might not find the numbers helpful, or might even not want to know them.

- Survival Statistics for Mesothelioma

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

- **Questions To Ask About Malignant Mesothelioma**

## Can Malignant Mesothelioma Be Found Early?

Mesothelioma is rare, and there are no recommended screening tests for this cancer in people who are not at increased risk. (Screening is testing for cancer in people who don't have any symptoms.)

For people who are known to have been exposed to asbestos, some doctors recommend regular **imaging tests**, like chest x-rays or computed tomography (CT) scans, to look for changes in the lungs that might be signs of mesothelioma or lung cancer. But it's not clear how useful these tests are in finding mesotheliomas early.

Doctors have found that people with mesothelioma have high levels of certain substances in their blood, including **fibulin-3** and **soluble mesothelin-related peptides** (SMRPs). Researchers continue to study how blood tests for these substances might help find mesotheliomas early, as well as how they might be used to monitor the course of the disease in people who have mesothelioma.

Most mesotheliomas are found when a person goes to a doctor because of symptoms, most often chest pain and shortness of breath. People who have been exposed to asbestos should know the possible signs and symptoms of mesothelioma. Many of these symptoms are more likely to be caused by something other than mesothelioma. Still, it’s important to report any new symptoms to a health care provider right away so that the cause can be found and treated, if needed.

- **References**

[See all references for Malignant Mesothelioma](#)

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Signs and Symptoms of Mesothelioma

Many of the early symptoms of mesothelioma are the same as those likely to be caused by other problems, so at first people may ignore them or mistake them for common, minor ailments. Most people with mesothelioma have symptoms for at least a few months before they are diagnosed.

Pleural mesothelioma (mesothelioma of the chest) symptoms

- Pain in the side of the chest or lower back
- Shortness of breath
- Cough
- Trouble swallowing (feeling like food gets stuck)
- Hoarseness
- Swelling of the face and arms

Peritoneal mesothelioma symptoms

- Abdominal (belly) pain
- Swelling or fluid in the abdomen
- Nausea and vomiting
- Constipation

Pericardial mesothelioma symptoms

- Chest pain
- Irregular heart rhythm
- Heart murmur
- Shortness of breath

General mesothelioma symptoms

- Fever
Excessive sweating
- Fatigue
- Weight loss (without trying)
- Blood clots
- Loss of appetite

These symptoms can be caused by mesothelioma, but more often they are caused by other conditions. Still, if you have any of these problems (especially if you have been exposed to asbestos), it’s important to see a health care provider right away so the cause can be found and treated, if needed.

**References**

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**Tests for Malignant Mesothelioma**

Mesothelioma is most often found after a person sees a health care provider because of symptoms they’re having. If there’s a reason to suspect you might have mesothelioma, you will be examined and some tested to find out more. Symptoms might suggest that you have mesothelioma, but tests must be done to find out what's causing your symptoms.

**Medical history and physical exam**

Your provider will want to talk with you about your medical history to learn more about your symptoms and possible risk factors, especially asbestos exposure.

Your provider will also examine you to look for signs of other health problems. Pleural mesothelioma can cause fluid to build up around the lungs in the chest (called a pleural effusion). In cases of peritoneal mesothelioma, fluid can build up in the abdomen (called ascites). In pericardial mesothelioma, fluid builds up in the sac around the heart (called a pericardial effusion). Rarely, mesothelioma can develop in the groin and look
like a hernia. All of these might be found during a physical exam, such as when your provider listens to these areas with a stethoscope or taps on your chest or belly.

Mesothelioma can be hard to diagnose. If the results of your history and physical exam suggest you might have mesothelioma, more tests will be needed. These could include imaging tests, blood tests, and/or biopsies.

**Imaging tests**

Imaging tests use x-rays, radioactive particles, sound waves, or magnetic fields to make pictures of the inside of your body. Imaging tests might be done to:

- Look at suspicious areas that might be cancer
- See if and/or how far cancer has spread
- Help find out if treatment is working
- Look for signs that the cancer has come back after treatment

**Chest x-ray**

This is often the first test done to look for problems in the lung. Findings that might suggest mesothelioma include an abnormal thickening of the pleura, calcium deposits on the pleura, fluid in the space between the lungs and the chest wall, or changes in the lungs themselves as a result of asbestos exposure.

**Computed tomography (CT) scan**

A CT scan uses x-rays to make detailed cross-sectional images (like slices) of your body. CT scans are often used to help look for mesothelioma and to find the exact location of the cancer. They can also help determine the stage (extent) of the cancer. For instance, they can show if the cancer has spread to other organs. This can help decide if surgery might be a treatment option. Finally, CT scans can also be used to learn if treatment like chemotherapy is shrinking or slowing the growth of the cancer.

**Echocardiogram**

This is an ultrasound of the heart. It may be done if your doctor suspects that you have fluid around your heart (a pericardial effusion). This test can also show how well your heart is working.
Positron emission tomography (PET) scan

PET scans usually use a radioactive sugar that's put into the blood. The amount of radioactivity used is very low. Because cancer cells grow quickly, they absorb more of the sugar than most other cells. A special camera then creates a picture of areas of radioactivity in the body.

The picture from a PET scan can give the doctor a better idea of whether a thickening of the pleura or peritoneum seen on a CT scan is more likely cancer or scar tissue. If you have been diagnosed with mesothelioma, your doctor may use this test to see if the cancer has spread to lymph nodes or other parts of the body. A PET scan can also be useful if your doctor thinks the cancer may have spread but doesn't know where.

**PET/CT scan:** Some machines can do both a PET and CT scan 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.

Magnetic resonance imaging (MRI) scan

Like CT scans, MRI scans show detailed images of the soft tissues in the body. But MRI scans use radio waves and strong magnets instead of x-rays. A contrast material called gadolinium is often injected into a vein before the scan to better show details.

MRI scans can sometimes help show the exact location and extent of a tumor since they provide very detailed images of soft tissues. For mesotheliomas, they may be useful in looking at the diaphragm (the thin band of muscle below the lungs that helps us breathe), a possible site of cancer spread.

Blood tests

Blood levels of certain substances are often higher in people with mesothelioma:

- Fibulin-3
- Soluble mesothelin-related peptides (SMRPs)

Mesothelioma can’t be diagnosed with these blood tests alone, but high levels of these substances can make the diagnosis more likely. Still, more research is needed, and these tests are not routinely used in because of their limited value.

Other blood tests might be used to get an idea of your overall health and how well other organs, like the liver and kidneys, are working.
Tests of fluid and tissue samples

Symptoms and test results may strongly suggest that a person has mesothelioma, but the actual diagnosis is made by removing cells from an abnormal area and looking at them under a microscope. This is called a biopsy. It can be done in different ways.

Removing fluid for testing

If there is a build-up of fluid in part of the body that might be due to mesothelioma, a sample of this fluid can be taken out by putting a thin, hollow needle through the skin and into the fluid. The skin is numbed before the needle is put in. This may be done in a doctor’s office or in the hospital. Sometimes ultrasound (or an echocardiogram) is used to guide the needle.

This procedure has different names depending on where the fluid is:

- **Thoracentesis** removes fluid from the chest.
- **Paracentesis** removes fluid from the belly.
- **Pericardiocentesis** removes fluid from the sac around the heart.

The fluid is then tested and looked at with a microscope to see if it contains cancer cells. If cancer cells are found, special tests might be done to see if the cancer is a mesothelioma, a lung cancer, or another type of cancer.

Even if no cancer cells are found in the fluid, a person might still have cancer. In many cases, doctors need to get an actual sample of the mesothelium (the pleura, peritoneum, or pericardium) to know if a person has mesothelioma.

Needle biopsies

Tiny pieces of tumors in the chest are sometimes taken out by needle biopsy. A long, thin, hollow needle is passed through the skin of the chest, between the ribs, and into the pleura. Imaging tests, like CT scans, are used to guide the needle into the tumor so that small samples can be taken out. This is often done using just numbing medicine.

Needle biopsy can also be used to get samples of the lymph nodes in the space between the lungs to see if the cancer has spread there. (See Endobronchial ultrasound needle biopsy below.)

Needle biopsies do not require a surgical cut or overnight hospital stay. But the downside is that sometimes the sample taken out isn't big enough to make an accurate
diagnosis. This is especially true for mesothelioma. And a more invasive biopsy method is usually needed.

**Needle biopsy risk:** There's a slight chance that the needle could put a small hole in the lung during the biopsy. This can cause air to build up in the space between the lung and the chest wall (known as a *pneumothorax*). A small pneumothorax might not cause any symptoms. It may only be seen on an x-ray done after the biopsy, and will often go away on its own. But a larger pneumothorax can make part of a lung collapse and might need to be treated. The treatment is putting a small, flexible tube (a catheter) through the skin and into the space between the lungs. The tube is used to suck the air out in order to re-expand the lung. It's left in place for a short time as the hole heals.

**Endoscopic biopsies**

Endoscopic biopsy is commonly used to diagnose mesothelioma. An *endoscope* is a thin, tube-like instrument used to look inside the body. It has a light and a lens (or tiny video camera) on the end that allows your provider to look inside your body. Tools can be used through the endoscope to take out tissue samples. Endoscopes have different names depending on the part of the body where they’re used.

**Thoracoscopy:** This procedure uses an endoscope called a thoracoscope to look inside the chest. It can be used to look at the pleura and take tissue samples for biopsies.

Thoracoscopy is done in the operating room while drugs are used to put you in a deep sleep (general anesthesia). The doctor slides the thoracoscope through one or more small cuts made on your chest to look at the space between your lungs and the chest wall. This lets the doctor see possible areas of cancer and take out small pieces of tissue for testing. The doctor can also take out lymph nodes and fluid. They may be able to see if a tumor is growing into nearby tissues or organs.

Thoracoscopy can also be used as part of a procedure to keep fluid from building up in the chest. This is called *pleurodesis* and is covered in *Palliative Procedures Used for Malignant Mesothelioma*.

**Laparoscopy:** For this test, the doctor uses an endoscope called a *laparoscope* to look inside your belly and biopsy any tumors there. This is done in the operating room while you are under general anesthesia (in a deep sleep). The laparoscope is put into your abdomen through small cuts on the front of your belly.

**Mediastinoscopy:** If imaging tests suggest that the cancer might have spread to the
lymph nodes between the lungs, the doctor may want to sample some of them to see if they really contain cancer. The area between the lungs is called the mediastinum, and looking at it with an endoscope is called mediastinoscopy. This is done in an operating room while you are under general anesthesia (in a deep sleep).

A small cut is made in the front of your neck above your breast bone (sternum). Then a thin, hollow, lighted tube (a mediastinoscope) is slid in behind the sternum and in front of the windpipe to look at the area. Special instruments can be passed through this tube to take tissue samples from the lymph nodes along the windpipe and the space around the major breathing (bronchial) tubes.

Lung cancers often spread to lymph nodes, but mesotheliomas do this less often. Testing the lymph nodes can help show whether a cancer has started to spread, which might affect treatment options. It can also sometimes help tell lung cancers from mesotheliomas. People with mesothelioma don’t need to have a bronchoscopy. (This is when a tube is used to look inside the breathing tubes.) It's not needed because mesothelioma doesn’t spread inside the breathing tubes. Instead, sometimes a bronchoscopy may be used to biopsy lymph nodes near the lungs instead of a mediastinoscopy.

**Endobronchial ultrasound needle biopsy:** For this test, a bronchoscope (a long, thin, flexible, fiber-optic tube) with an ultrasound device at its tip is passed down the throat and into the windpipe. The ultrasound lets the doctor see the nearby lymph nodes. A hollow needle is passed down the bronchoscope and through the airway wall into the nodes to take biopsy samples. This procedure may be done with either general anesthesia (where you are asleep), or with numbing medicine (local anesthesia) and light sedation.

**Open surgical biopsy**

Sometimes, endoscopic biopsies aren’t enough to make a diagnosis, so more invasive procedures are needed. By making an incision in the chest (thoracotomy) or in the abdomen (laparotomy) the surgeon can remove a larger sample of tumor or, sometimes, take out the entire tumor.

**Testing the samples in the lab**

All biopsy and fluid samples are sent to a pathology lab. There, a doctor will look at them with a microscope and test them to find out if they contain cancer cells (and if so, what type of cancer it is).
It’s often hard to diagnose mesothelioma by looking at cells from fluid samples. It can even be hard to diagnose mesothelioma with tissue from small needle biopsies. Under the microscope, mesothelioma often looks like other types of cancer. For example, pleural mesothelioma can look a lot like some types of lung cancer, and peritoneal mesothelioma in women may look like some cancers of the ovaries.

For this reason, special lab tests are often done to help tell mesothelioma from some other cancers. To learn more about some of the tests that might be done on tissue samples, see Testing Biopsy and Cytology Specimens for Cancer.

If mesothelioma is diagnosed, the doctor will also determine what type of mesothelioma it is, based on the patterns of cells seen in the microscope. Most mesotheliomas are classified as either epithelioid, sarcomatoid, or mixed/biphasic.

**Pulmonary function tests**

If mesothelioma has been diagnosed, pulmonary function tests (PFTs) may be done to see how well your lungs are working. This is especially important if surgery might be an option to treat the cancer. Surgery often requires removing part or all of a lung, so it’s important to know how well the lungs are working to start with. These tests can give the surgeon an idea of whether surgery may be an option, and if so, how much lung can safely be removed safely.

There are a few different types of PFTs, but basically you breathe in and out through a tube connected to a machine that measures airflow and how much air your lungs can hold.

- References

See all references for Malignant Mesothelioma

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**Malignant Mesothelioma Stages**
After malignant mesothelioma is diagnosed, the next step is to 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 stages of mesothelioma range from 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 (after the number) means a lower stage. Each person with cancer is unique, but cancers with similar stages tend to have a similar outlook and are often treated in much the same way.

**How is the stage determined?**

*Malignant pleural mesothelioma (MPM)*, the most common type, is the only mesothelioma that has a formal staging system. These mesotheliomas start in the pleura, which includes the lining of the lungs and the inner lining of the chest wall.

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

- The extent (size) of the main *tumor* (*T*): How far has cancer spread in the pleura? Has it spread into other nearby pleura or structures? Can it be removed with surgery?
- 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 organs, like the bones, liver, the lungs or pleura (lining of the lung) on the other side of the body, or the peritoneum (the lining of the abdomen)?

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 on this, see [Cancer Staging](#).

The system described below is the most recent AJCC system, effective as of January 2018. It’s *used only for malignant pleural mesotheliomas*. Mesotheliomas starting in other places are less common and do not have formal staging systems.

MPM typically is given a *clinical stage* based on the results of a physical exam, biopsy, and imaging tests (as described in [How Is Malignant Mesothelioma Diagnosed?](#)). If
surgery is done, the **pathologic stage** (also called the **surgical stage**) is determined by examining the tissue removed during the operation.

Cancer staging can be complex, so ask your doctor to explain it to you in a way you understand.

## Stages of malignant pleural mesothelioma

<table>
<thead>
<tr>
<th>AJCC Stage</th>
<th>Stage grouping</th>
<th>Stage description*</th>
</tr>
</thead>
<tbody>
<tr>
<td>IA</td>
<td>T1</td>
<td>Mesothelioma is in the pleura lining the chest wall on one side of the chest. It may or may not also affect the pleura lining the diaphragm (the thin breathing muscle below the lungs), the mediastinum (the space between the lungs), or the pleura covering the lung (T1). It has not spread to nearby lymph nodes (N0) or to distant parts of the body (M0).</td>
</tr>
<tr>
<td></td>
<td>T2</td>
<td>Mesothelioma is in the pleura lining the chest wall on one side of the chest, as well as in the pleura coating the diaphragm, the mediastinum, and the lung. It also has grown into the diaphragm or the lung itself (T2). It has not spread to nearby lymph nodes (N0) or to distant parts of the body (M0).</td>
</tr>
</tbody>
</table>
|            | T3            | Mesothelioma has grown into nearby structures but may still possibly be removed (resected) with surgery (T3). The tumor is in the pleura lining the chest wall on one side of the chest, as well as the pleura coating the lung, the diaphragm, and the mediastinum on the same side. It also has grown into at least 1 of the following:  
  • The first layer of the chest wall (called the **endothoracic fascia**)  
  • The fatty tissue in the mediastinum  
  • A single place in the deeper layers of the chest wall  
  • The surface of the pericardium (outer covering layer of the heart)  
  The cancer has not spread to nearby lymph nodes (N0) or to distant parts of the body (M0). |
<p>| IB         | T3            | Mesothelioma is in the pleura lining the chest wall on one side of the chest (T1), and it may have grown into the diaphragm or the lung itself (T2). The cancer has spread to nearby lymph nodes on the same side of the body as the main tumor (N1). It |
|            | T1 or T2      |                           |
|            | N1            |                           |
|            | M0            |                           |</p>
<table>
<thead>
<tr>
<th>Stage</th>
<th>Tumor Size (T)</th>
<th>Nodes (N)</th>
<th>Metastasis (M)</th>
<th>Description</th>
</tr>
</thead>
</table>
| IIIA  | T3 N1 M0      |           |               | Mesothelioma has grown into nearby structures but may still possibly be removed (resected) with surgery (T3). The tumor is in the pleura lining the chest wall on one side of the chest, as well as the pleura coating the lung, the diaphragm, and the mediastinum on the same side. It also has grown into at least 1 of the following:  
  - The first layer of the chest wall (endothoracic fascia)  
  - The fatty tissue between the lungs (in the mediastinum)  
  - A single place in the deeper layers of the chest wall  
  - The surface of the pericardium (outer covering of the heart)  
  The cancer has spread to nearby lymph nodes on the same side of the body as the main tumor (N1). It has not spread to distant parts of the body (M0). |
|      | T1-T3 N2 M0   |           |               | Mesothelioma may or may not have grown into nearby structures, and it may still possibly be removed (resected) with surgery (T1 to T3). The cancer has spread to nearby lymph nodes on the other side of the body, or to lymph nodes above the collarbone (supraclavicular lymph nodes) on either side (N2). It has not spread to distant parts of the body (M0). |
|      | T4 Any N M0   |           |               | Mesothelioma has grown too far to be removed completely with surgery (T4). The tumor is in the pleura lining the chest wall on one side of the chest, as well as the pleura coating the lung, diaphragm, and mediastinum on the same side. The tumor also has grown into at least 1 of the following:  
  - More than 1 place in the deeper layers of the chest wall, including the muscle or ribs  
  - Through the diaphragm and into the peritoneum (the lining around the abdomen)  
  - Any organ in the mediastinum (esophagus, trachea, thymus, or blood vessels)  
  - The spine  
  - Across to the pleura on the other side of the chest  
  - Through the heart lining (pericardium) or into the heart itself  
  The cancer may or may not have spread to nearby lymph nodes (any N). It has not spread to distant parts of the body (M0). |
|      | Any T         |           |               | Mesothelioma may or may not have grown into nearby structures, and it may still possibly be removed (resected) with surgery (T1 to T3). The cancer has spread to nearby lymph nodes on the other side of the body, or to lymph nodes above the collarbone (supraclavicular lymph nodes) on either side (N2). It has not spread to distant parts of the body (M0). |
Any N structures (any T). It may or may not have spread to nearby lymph nodes (any N). It has spread to distant organs, like the bones, the liver, the lung or pleura on the other side of the body, or the peritoneum (the lining of the abdomen) (M1).

* The following categories may be used, but are not listed on the table above:
  - **TX**: Main tumor cannot be assessed due to lack of information.
  - **T0**: There’s no evidence of a primary tumor.
  - **NX**: Nearby lymph nodes cannot be assessed due to lack of information.

**Resectable versus unresectable cancer**

The TNM system groups mesotheliomas into stages that help give doctors an idea about a person’s prognosis (outlook). But for treatment purposes, doctors often use a simpler system, based on whether the cancer is likely to be **resectable** (where all visible tumor can be removed by surgery) or **unresectable** (all of the cancer cannot be removed).

In general, most stage I and II mesotheliomas, as well as some stage III, might be resectable, but there are exceptions. Whether the cancer can be removed depends not only on how far the tumor has grown, but also on its subtype (most doctors believe only epithelioid and mixed/biphasic tumors are potentially resectable), where it’s located, and if the patient is healthy enough to have surgery.

Even for resectable mesotheliomas, in most cases cancer cells that can’t be seen are left behind after surgery. Because of this, many doctors use other treatments (radiation therapy and/or chemotherapy) along with surgery when possible.

**Other prognostic factors**

Stage is an important factor in predicting a person’s prognosis (outlook), but other factors also play a role. Some factors linked to longer survival times include:

- Still being able to carry out normal daily tasks
- Being younger
- Being female
- Having the epithelioid subtype of mesothelioma
• Having normal levels of LDH in the blood
• Having normal levels of red blood cells, white blood cells, and platelets
• References


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Survival Statistics for Mesothelioma

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

What is a survival rate?

Statistics on the outlook for a certain type and stage of cancer are often given as survival rates. For example, the 5-year survival rate is the percentage of people who live at least 5 years after being diagnosed with cancer. A 5-year survival rate of 50% means that an estimated 50 out of 100 people who have that cancer are still alive 5 years after being diagnosed. Many of these people live much longer than 5 years after diagnosis.

But keep in mind that survival rates are estimates – your outlook can vary based on a number of factors specific to you.
Cancer survival rates don’t tell the whole story

Survival rates are often based on previous outcomes of large numbers of people who had the disease, but they can’t predict what will happen in any particular person’s case. There are a number of limitations to remember:

- The numbers below are among the most current available. But to get 5-year survival rates, for example, doctors have to look at people who were treated at least 5 years ago. As treatments are improving over time, people who are now being diagnosed with mesothelioma may have a better outlook than these statistics show.
- These statistics are based on the stage of the cancer when it was first diagnosed. They do not apply to cancers that later come back or spread.
- The outlook for people with mesothelioma varies by the stage (extent) of the cancer – in general, the survival rates are higher for people with earlier stage cancers. But many other factors can also affect a person’s outlook, such as a person’s age and overall health, where the cancer is in the body, what type of mesothelioma it is, and how well it responds to treatment. The outlook for each person is specific to their circumstances.

Your doctor can tell you how these numbers may apply to you, as he or she is familiar with your particular situation.

Survival rates for malignant pleural mesothelioma

The numbers below come from thousands of people from all over the world who were diagnosed with malignant pleural mesothelioma (MPM), mainly between the years 2000 and 2013. These numbers are only for mesotheliomas that start in the inner lining of the chest (the pleura), which is the most common place for mesothelioma to start.

Here are the 2-year and 5-year survival rates, by stage, for MPM:

- For stage IA cancers, the 2-year survival rate is about 46%, and the 5-year survival rate is about 16%.
- For stage IB cancers, the 2-year survival rate is about 41%, and the 5-year survival rate is about 13%.
- For stage II cancers, the 2-year survival rate is about 38%, and the 5-year survival rate is about 10%.
- For stage IIIA cancers, the 2-year survival rate is about 30%, and the 5-year survival rate is about 8%.
For stage IIIB cancers, the 2-year survival rate is about 26%, and the 5-year survival rate is about 5%.

For stage IV cancers, the 2-year survival rate is about 17%, and the 5-year survival rate is less than 1%.

Along with the stage of the cancer, the outlook for people with MPM can also be affected by other factors. For example, the type of mesothelioma, based on how the cancer cells are arranged when seen in the lab, is important. The epithelioid type tends to have a better outlook than the other types, such as sarcomatoid or mixed (biphasic) MPM. Other factors can be important, too.

Remember, these survival rates are only estimates – they can’t predict what will happen to any one person. We understand that these statistics can be confusing and may lead you to have more questions. Talk to your doctor to better understand your specific situation.

References


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Questions To Ask About Malignant Mesothelioma

It’s important to have honest, open discussions with your cancer care team. You should ask any question, no matter how small it might seem.
Here are some questions you can use to help better understand mesothelioma and your treatment options. Don’t be afraid to take notes and tell the doctors or nurses when you don’t understand what they’re saying. You might want to bring another person with you and have them take notes to help you remember what was said.

**When you're told you have mesothelioma**

- What kind of mesothelioma do I have?
- Where is the cancer? Has my cancer spread beyond where it started?
- What's the stage (extent) of the cancer, and what does that mean?
- Do I need other tests before we can decide on treatment?
- Do I need to see any other types of doctors?
- 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**

- How much experience do you have treating this type of cancer?
- Should I get a second opinion? How do I do that?
- What are my treatment options?
- Do you think my cancer can be removed by surgery?
- Should I think about taking part in a clinical trial?
- What is the goal of treatment?
- What do you recommend and why?
- How soon do I need to start treatment?
- What should I do to be ready for treatment?
- How long will treatment last? What will it be like? Where will it be done?
- What risks or side effects are there to the treatments you suggest? Is there anything we can do to reduce side effects?
- How will treatment affect my daily activities? Can I still work?
- What will we do if the treatment doesn’t work or if the cancer recurs?

**During treatment**

Once treatment starts, 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 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?
• Will 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?
• Will I need special tests, such as imaging scans or blood tests? How often?

After treatment

• What type of follow-up might I need after treatment?
• Are there any limits on what I can do?
• How often will I need follow-up exams, blood tests, or imaging tests?
• How will we know if the cancer comes back? What should I watch for?
• What will my options be if the cancer comes back?

Be sure to write down questions of your own. For instance, you might want to ask about nearby or online support groups where you can talk with other people going through similar situations. Or you may want to ask if you qualify for any clinical trials.

Keep in mind that doctors aren’t the only ones who can give you information. Other health care professionals, such as nurses and social workers, can answer some of your questions. To find out more about speaking with your health care team, see The Doctor-Patient Relationship.

• References

See all references for Malignant Mesothelioma

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