

### **Diseases and Conditions**

## **Prostate cancer**

### By Mayo Clinic Staff

Prostate cancer is cancer that occurs in a man's prostate — a small walnut-shaped gland that produces the seminal fluid that nourishes and transports sperm.

Prostate cancer is one of the most common types of cancer in men. Prostate cancer usually grows slowly and initially remains confined to the prostate gland, where it may not cause serious harm. While some types of prostate cancer grow slowly and may need minimal or no treatment, other types are aggressive and can spread quickly.

Prostate cancer that is detected early — when it's still confined to the prostate gland — has a better chance of successful treatment.

Prostate cancer may cause no signs or symptoms in its early stages.

Prostate cancer that is more advanced may cause signs and symptoms such as:

- Trouble urinating
- Decreased force in the stream of urine
- Blood in the semen
- · Discomfort in the pelvic area
- Bone pain
- Erectile dysfunction

### When to see a doctor

Make an appointment with your doctor if you have any signs or symptoms that worry you.

There is debate regarding the risks and benefits of screening for prostate cancer, and medical organizations differ on their recommendations. Discuss prostate cancer screening



It's not clear what causes prostate cancer.

Doctors know that prostate cancer begins when some cells in your prostate become abnormal. Mutations in the abnormal cells' DNA cause the cells to grow and divide more rapidly than normal cells do. The abnormal cells continue living, when other cells would die. The accumulating abnormal cells form a tumor that can grow to invade nearby tissue. Some abnormal cells can break off and spread (metastasize) to other parts of the body.

Factors that can increase your risk of prostate cancer include:

- Older age. Your risk of prostate cancer increases as you age.
- Being black. Black men have a greater risk of prostate cancer than do men of other races. In black men, prostate cancer is also more likely to be aggressive or advanced. It's not clear why this is.
- Family history of prostate or breast cancer. If men in your family have had prostate
  cancer, your risk may be increased. Also, if you have a family history of genes that
  increase the risk of breast cancer (BRCA1 or BRCA2) or a very strong family history of
  breast cancer, your risk of prostate cancer may be higher.
- **Obesity.** Obese men diagnosed with prostate cancer may be more likely to have advanced disease that's more difficult to treat.

Complications of prostate cancer and its treatments include:

- Cancer that spreads (metastasizes). Prostate cancer can spread to nearby organs, such as your bladder, or travel through your bloodstream or lymphatic system to your bones or other organs. Prostate cancer that spreads to the bones can cause pain and broken bones. Once prostate cancer has spread to other areas of the body, it may still respond to treatment and may be controlled, but it's unlikely to be cured.
- **Incontinence**. Both prostate cancer and its treatment can cause urinary incontinence. Treatment for incontinence depends on the type you have, how severe it is and the likelihood it will improve over time. Treatment options may include medications, catheters and surgery.
- Erectile dysfunction. Erectile dysfunction can be a result of prostate cancer or its
  treatment, including surgery, radiation or hormone treatments. Medications, vacuum
  devices that assist in achieving erection and surgery are available to treat erectile
  dysfunction.

If you have signs or symptoms that worry you, start by seeing your family doctor or a general practitioner.

If your doctor suspects you may have a problem with your prostate, you may be referred to a urinary tract specialist (urologist). If you're diagnosed with prostate cancer, you may be



cancer (radiation oncologist).

Because appointments can be brief, and because there's often a lot of ground to cover, it's a good idea to be prepared. Here's some information to help you get ready and what to expect from your doctor.

## What you can do

- Be aware of any pre-appointment restrictions. At the time you make the appointment, be sure to ask if there's anything you need to do in advance, such as restrict your diet.
- Write down any symptoms you're experiencing, including any that may seem unrelated to the reason for which you scheduled the appointment.
- Write down key personal information, including any major stresses or recent life changes.
- Make a list of all medications, vitamins or supplements that you're taking.
- Consider taking a family member or friend along. Sometimes it can be difficult to remember all the information provided during an appointment. Someone who accompanies you may remember something that you missed or forgot.
- Write down questions to ask your doctor.

Your time with your doctor is limited, so preparing a list of questions can help you make the most of your time together. List your questions from most important to least important in case time runs out. For prostate cancer, some basic questions to ask your doctor include:

- Do I have prostate cancer?
- How large is my prostate cancer?
- Has my prostate cancer spread beyond my prostate?
- What is my Gleason score?
- What is my prostate-specific antigen (PSA) level?
- Will I need more tests?
- What are my treatment options?
- Is there one treatment option you think is best for me?
- Do I need cancer treatment right away, or is it possible to wait and see if the cancer grows?
- What are the potential side effects of each treatment?
- What is the chance that my prostate cancer will be cured with treatment?
- If you had a friend or family member in my situation, what would you recommend?



 Are there brochures or other printed material that I can take with me? What websites do you recommend?

In addition to the questions that you've prepared to ask your doctor, don't hesitate to ask other questions during your appointment.

### What to expect from your doctor

Your doctor is likely to ask you a number of questions. Being ready to answer them may allow more time later to cover other points you want to address. Your doctor may ask:

- When did you first begin experiencing symptoms?
- Have your symptoms been continuous or occasional?
- How severe are your symptoms?
- What, if anything, seems to improve your symptoms?
- What, if anything, appears to worsen your symptoms?

## Screening for prostate cancer

Whether to test healthy men with no symptoms for prostate cancer is controversial. Medical organizations don't agree on the issue of screening and whether it has benefits.

Some medical organizations recommend men consider prostate cancer screening in their 50s, or sooner for men who have risk factors for prostate cancer. Other organizations advise against screening.

Discuss your particular situation and the benefits and risks of screening with your doctor. Together, you can decide whether prostate cancer screening is right for you.

Prostate screening tests might include:)

- Digital rectal exam (DRE). During a DRE, your doctor inserts a gloved, lubricated finger
  into your rectum to examine your prostate, which is adjacent to the rectum. If your doctor
  finds any abnormalities in the texture, shape or size of your gland, you may need more
  tests.
- Prostate-specific antigen (PSA) test. A blood sample is drawn from a vein in your arm and analyzed for PSA, a substance that's naturally produced by your prostate gland. It's normal for a small amount of PSA to be in your bloodstream. However, if a higher than normal level is found, it may be an indication of prostate infection, inflammation, enlargement or cancer.

PSA testing combined with DRE helps identify prostate cancers at their earliest stages, but studies have disagreed whether these tests reduce the risk of dying of prostate cancer. For



## Diagnosing prostate cancer

If an abnormality is detected on a DRE or PSA test, your doctor may recommend tests to determine whether you have prostate cancer, such as:

- Ultrasound. If other tests raise concerns, your doctor may use transrectal ultrasound to
  further evaluate your prostate. A small probe, about the size and shape of a cigar, is
  inserted into your rectum. The probe uses sound waves to make a picture of your
  prostate gland.
- Collecting a sample of prostate tissue. If initial test results suggest prostate cancer, your doctor may recommend a procedure to collect a sample of cells from your prostate (prostate biopsy). Prostate biopsy is often done using a thin needle that's inserted into the prostate to collect tissue. The tissue sample is analyzed in a lab to determine whether cancer cells are present.

### Determining whether prostate cancer is aggressive

When a biopsy confirms the presence of cancer, the next step is to determine the level of aggressiveness (grade) of the cancer cells. In a laboratory, a pathologist examines a sample of your cancer to determine how much cancer cells differ from the healthy cells. A higher grade indicates a more aggressive cancer that is more likely to spread quickly.

The most common scale used to evaluate the grade of prostate cancer cells is called a Gleason score. Scoring combines two numbers and can range from 2 (nonaggressive cancer) to 10 (very aggressive cancer).

### Determining how far the cancer has spread

Once a prostate cancer diagnosis has been made, your doctor works to determine the extent (stage) of the cancer. If your doctor suspects your cancer may have spread beyond your prostate, imaging tests such as these may be recommended:

- Bone scan
- Ultrasound
- Computerized tomography (CT) scan
- Magnetic resonance imaging (MRI)
- Positron emission tomography (PET) scan

Not every person should have every test. Your doctor will help determine which tests are best for your individual case.

Once testing is complete, your doctor assigns your cancer a stage. This helps determine



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