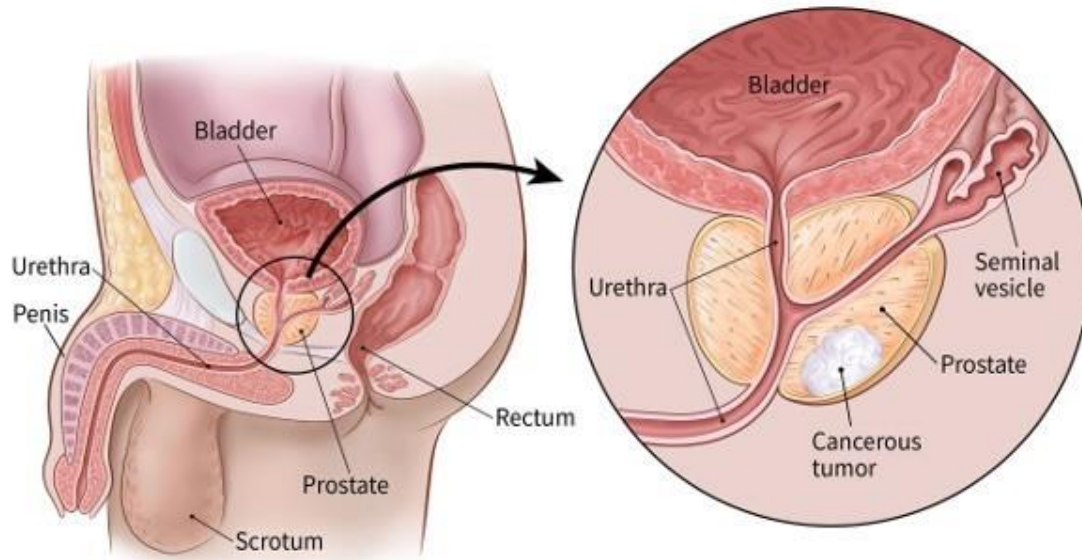


“Prostate Cancer... the Other Silent Killer”



The Facts, Fictions, and Myths of Prostate Cancer. Leaders Guide

Designed for and presented at the
2025 Oregon Association for Family and Community Education (FCE)
State Conference

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Presented by Scott Teeples

**Note: PowerPoint of this lesson is available. Please contact Scott Teeples 541-891-6456 –
email sfteeples@outlook.com Also see www.oregon-fce.org**

“Prostate Cancer... the Other Silent Killer”

The Facts, Fictions, and Myths of Prostate Cancer.

Outline:

- Welcome and Introduction of Presenters 1 minute
 - Review Goals and Objectives 1 minute
 - Introduction of Lesson 1 minute
 - Hand out “Prostate Cancer” Quiz 5 minutes
 - Prostate Cancer Presentation (verbal or PowerPoint) 47 minutes
 - Conclusion, comments, questions, and Handouts..... 5 minutes
- 60 total minutes**

Goals and Objectives

- Participants will gain an understanding of what Prostate Cancer is, its types, its statistics, the risk of it happening, deaths from it, prevention, diagnosis of it, and treatment.

This lesson is done on a “Question/Answer” format.

Note to the Presenter of this Lesson: It is suggested that you read through this lesson and “Hi-Lite” the parts that you want to present and read. This lesson can be shortened or lengthened to meet various meeting times and presentations.

Use the PowerPoint presentation, if possible, so that all the participants can see the pictures.

Items That May Be Needed for Presentation

- Leaders Guide for: **“Prostate Cancer... the Other Silent Killer”**
 - Various Activities and Handouts (Handouts 1, 2, and 3)
 - Pencils or pens for each attendee
 - Blank paper for each attendee (if needed)
 - ** PowerPoint Presentation: Leaders Guide for: **“Prostate Cancer... the Other Silent Killer”**
 - **Computer
 - **PowerPoint projector
 - **Screen or wall to project presentation on
 - **Computer/projector table
 - **Electrical cords/power bars as needed
- **Only needed if PowerPoint presentation is used***



References and Resources Credit Given to:



cancer.org | 1.800.227.2345

- Complete list of References and Resources are listed at the end of lesson.

“Prostate Cancer... the Other Silent Killer”

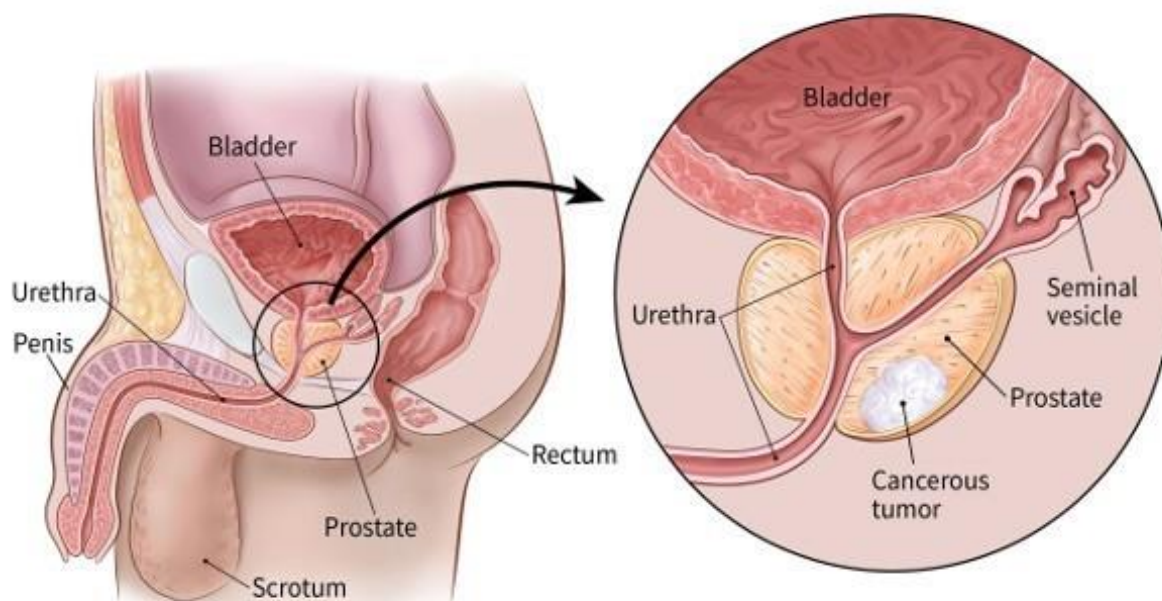
The Facts, Fictions, and Myths of Prostate Cancer.

Don't be fooled by rumors and misinformation about prostate cancer. Get the facts. Test your knowledge of common beliefs about prostate cancer

1. (True/False) The prostate is located on the inside the upper back, near the kidneys.

The Correct Answer is **False**

The prostate is below the bladder (the hollow organ where urine is stored) and in front of the rectum (the last part of the intestines). Just behind the prostate are glands called seminal vesicles, which make most of the fluid for semen. The urethra, which is the tube that carries urine and semen out of the body through the penis, goes through the center of the prostate.



2, (True/False) Men of any age can get prostate cancer.

The Correct Answer is **True**.

Prostate cancer can be found in men younger than 40, but it's very rare in this age group. The risk of prostate cancer rises rapidly after age 50 – about 6 in 10 cases of prostate cancer are found in men over the age of 65.

3. (True/False) Prostate cancer often causes men to have trouble passing urine.

The Correct Answer is **False and True**

Early prostate cancer usually doesn't cause symptoms. But as it grows, the cancer can cause things like:

- Problems passing urine (peeing) like a weak or slow stream, or having to go a lot, especially at night.
- Blood in the urine
- Erection problems
- Weakness and bone pain

Other diseases cause these symptoms, too. For example, benign prostatic hyperplasia (BPH) is a much more common cause of urine problems than prostate cancer. Still, it's important to see a doctor if you have any of these problems so that the cause can be found and treated, if needed.

4. (True/False) Prostate cancer always needs to be treated right away.

The Correct Answer is **False**.

Most men are diagnosed with prostate cancer when it's still at an early stage – it's small and has not spread. Not all of these cancers need to be treated. There are many important factors to take into account before deciding on if you need treatment (and if so, what type of treatment), such as your age and general health, and the likelihood that the cancer will cause problems for you. You should also think about possible side effects of treatment. Some men, for example, want

to avoid possible surgery and radiation side effects, like incontinence or impotence, for as long as possible.

If you're older or have other serious health problems and your cancer is slow growing, you might be more inclined to consider active surveillance instead of treatments that might cause major side effects.

Active surveillance means monitoring the cancer closely with regular prostate-specific antigen (PSA) blood tests, digital rectal exams (DREs), and ultrasounds to see if the cancer is growing. Prostate biopsies may be done, too. If there's a change in your test results, your doctor would then talk to you about treatment options.

5. (True/False) All men should be tested for prostate cancer.

The Correct Answer is **False**.

Prostate cancer screening (testing for prostate cancer in men who have no symptoms) is not perfect, and in some men it may do more harm than good.

The American Cancer Society recommends that men have a chance to make an informed decision with their health care provider about whether to be checked for prostate cancer. The decision should be made after getting information about the uncertainties, risks, and potential benefits of prostate cancer screening.

Discussions about screening should take place at age 50 for men who are at average risk of prostate cancer and are expected to live at least 10 more years.

This discussion should take place starting at age 45 for men at high risk for prostate cancer. This includes African American men and men who have a first-degree relative (father, brother, or son) diagnosed with prostate cancer at an early age (younger than age 65).

This discussion should take place at age 40 for men at even higher risk (those with more than one first-degree relative who had prostate cancer at an early age).

After this discussion, those men who want to be screened should be tested with the prostate-specific antigen (PSA) blood test. The digital rectal exam (DRE) may also be done as a part of screening.

6. (True/False) There's nothing that can be done to lower your chances of getting prostate cancer.

The Correct Answer is **False**.

We don't know the cause of most cases of prostate cancer, so we don't know how to prevent it. But there are things you can do that might help lower your chances of getting prostate cancer, as well as other types of cancer, such as:

- Getting to and staying at a healthy weight.
- Being physically active.
- Following a healthy eating pattern, which includes a variety of colorful fruits and vegetables and whole grains, and avoids or limits red and processed meats, sugar-sweetened beverages, and highly processed foods.

7. (True/False) Prostate cancer begins when cells in the prostate gland start to grow out of control.

The Correct Answer is **True**

Prostate cancer begins when cells in the prostate gland start to grow out of control. The prostate is a gland found only in males. It makes some of the fluid that is part of semen.

8. (True/False) Prostate Cancer occurs when the cells within the Prostate begin to die.

The Correct Answer is **False**

Cancer starts when cells in the body begin to grow out of control. Cells in nearly any part of the body can become cancer cells.

The prostate tends to grow as a man ages. In younger men, it is about the size of a walnut, but it can be much larger in older men.

9. (True/False) There is only one type of Prostate Cancer.

The Correct Answer is False

Almost all prostate cancers are adenocarcinomas. These cancers develop from the gland cells in the prostate (the cells that make the prostate fluid that is added to the semen).

Other types of cancer that can start in the prostate include:

- Small cell carcinoma (small cell neuroendocrine carcinoma)
- Other neuroendocrine tumors (including large cell carcinoma)
- Transitional cell carcinoma
- Sarcomas

These other types of cancer are rare. If you are told you have prostate cancer, it is very likely to be an adenocarcinoma.

10. (True/False) Most Prostate Cancers grow slowly.

The Correct Answer is True

Some prostate cancers can grow and spread quickly, but most tend to grow slowly.

Some research suggests that prostate cancer might start out as a pre-cancerous condition in some cases. These conditions are sometimes found when a man has a prostate biopsy (removal of small pieces of the prostate to look for cancer).

11. (True/False) Prostate Cancer is the most common cancer among men.

The Correct Answer is False

Other than skin cancer, prostate cancer is the most common cancer in US men. Each year more than 230,000 men are diagnosed with prostate cancer in the US. And it's the second leading cause of cancer death in US men, behind only lung cancer.

12. (True/False) In the United States, very few men will be diagnosed with prostate cancer and very few men will die from prostate cancer.

The correct answer is **False**

The American Cancer Society's estimates for prostate cancer in the United States for 2024 are:

- About 299,010 new cases of prostate cancer
- About 35,250 deaths from prostate cancer

The number of prostate cancers diagnosed each year declined sharply from 2007 to 2014, coinciding with fewer men being screened because of changes in screening recommendations. Since 2014, however, the incidence rate has increased by 3% per year overall and by about 5% per year for advanced-stage prostate cancer.

13. (True/False) 7 out of 8 men will get Prostate Cancer in their lifetime.

The Correct Answer is **False**

About 1 in 8 men will be diagnosed with prostate cancer during their lifetime. But each man's risk of prostate cancer can vary, based on his age, race/ethnicity, and other factors.

For example, prostate cancer is more likely to develop in older men. About 6 in 10 prostate cancers are diagnosed in men who are 65 or older, and it is rare in men under 40. The average age of men when they are first diagnosed is about 67.

Prostate cancer risk is also higher in African American men and in Caribbean men of African ancestry than in men of other races.

14. (True/False) The number of deaths for Prostate Cancer is rapidly growing in the United States.

The Correct Answer is **False**

Prostate cancer is the second-leading cause of cancer death in American men, behind only lung cancer. About 1 in 44 men will die of prostate cancer.

Prostate cancer can be a serious disease, but most men diagnosed with prostate cancer do not die from it. In fact, more than 3.3 million men in the United States who have been diagnosed with prostate cancer at some point are still alive today.

The prostate cancer death rate declined by about half from 1993 to 2013, most likely due to earlier detection and advances in treatment. In recent years, the death rate has stabilized, likely reflecting the rise in cancers being found at an advanced stage.

15. (True/False) New research on gene changes in prostate cancer cells is helping scientists better understand how prostate cancer develops

The Correct Answer is **True**

New research on gene changes in prostate cancer cells is helping scientists better understand how prostate cancer develops. This could also help design medicines to target these changes. Learning more about these gene changes might be helpful in other ways as well, such as:

- Identifying which men are most likely to develop (or to already have) prostate cancer
- Determining which men might need a second prostate biopsy, even if an initial biopsy doesn't find cancer
- Determining which prostate cancers are most likely to grow and spread and therefore should be treated.
- Determining if specific treatments such as newer targeted therapy drugs might be helpful

- Identifying which men might benefit from genetic testing to see if they inherited a gene change (and therefore might have a higher risk for other cancers as well)

16. (True/False) Researchers continue to look for ways and methods of preventing Prostate Cancer.

The Correct Answer is **True**

Researchers continue to look for foods (or substances in them) that can help lower prostate cancer risk. Scientists have found some substances in tomatoes (lycopenes) and soybeans (isoflavones) that might help prevent some prostate cancers. Studies are now looking more closely at the possible effects of these compounds.

Scientists are also trying to develop related compounds that are even more potent and might be used as dietary supplements. But so far, most research suggests that a balanced diet including plenty of fruits and vegetables is probably of greater benefit than taking specific substances as dietary supplements.

Some research has suggested that men who regularly take certain medicines (such as aspirin or cholesterol-lowering statins) for a long time might have a lower risk of getting or dying from prostate cancer. More research is needed to confirm this, and to confirm that any benefit outweighs the potential risks.

Scientists have also tested certain hormonal medicines called 5-alpha reductase inhibitors as a way of reducing prostate cancer risk.

17, (True/False) The prostate-specific antigen (PSA) blood test is a perfect test for finding prostate cancer early

The Correct Answer is **False**

The prostate-specific antigen (PSA) blood test is not a perfect test for finding prostate cancer early. It misses some cancers, and sometimes it finds cancers

that would probably never need to be treated. Researchers are working on strategies to address these issues.

One approach is to try to improve on the test that measures the total FSA level.

Another approach is to develop new tests based on other forms of PSA, or other types of biomarkers. Several newer tests seem to be more accurate than the PSA test, including:

- The Prostate Health Index (PHI), which combines the results of total PSA, free PSA, and proPSA to help determine how likely it is that a man has prostate cancer that might need treatment
- The 4Kscore test, which combines the results of total PSA, free PSA, intact PSA, and human kallikrein 2 (hK2), along with some other factors, to help determine how likely a man is to have prostate cancer that might need treatment.
- Tests (such as ProgenSA) that look at the level of prostate cancer antigen 3 (PCA3) in the urine after a digital rectal exam (DRE). The DRE pushes some of the prostate cells into the urine. The higher the level, the more likely that prostate cancer is present.
- Tests that look for an abnormal gene change called *TMPRSS2:ERG* in prostate cells in urine collected after a DRE. This gene change is found in some prostate cancers, but it is rarely found in the cells of men without prostate cancer.
- ExoDx Prostate(IntelliScore), or EPI, a test that looks at levels of 3 biomarkers in a urine sample to help determine a man's risk of having aggressive (high-grade) prostate cancer
- SelectMDx, which looks at the levels of certain forms of RNA (linked to certain cancer-related genes) in the urine. This test can be used along with other factors to help determine a man's risk of having aggressive (high-grade) prostate cancer.

- Mi-Prostate Score (MiPS), which takes into account total blood PSA, as well as PCA3 levels and *TMPRSS2:ERG* gene changes in the urine (see above), to help determine a man's risk of prostate cancer
- Sentinel PCa Test, which looks for certain pieces of RNA in the urine to help determine a man's risk of prostate cancer
- IsoPSA, which looks at different forms of PSA in the blood to help determine a man's risk of having high-grade prostate cancer
- ConfirmMDx, which is a test that looks at certain genes in the cells from a prostate biopsy sample

These tests aren't likely to replace the PSA test any time soon, but they might be helpful in certain situations. For example:

- Some of these tests might be useful in men with a slightly elevated PSA, to help determine whether they should have a prostate biopsy.
- Some of these tests might be helpful in determining if men who have already had a prostate biopsy that didn't find cancer should have another biopsy.

Doctors and researchers are trying to determine the best way to use each of these tests.

18. (True/False) Doctors diagnosing Prostate cancer can use biopsies of the Prostate.

The Correct Answer is **True**

Doctors doing prostate biopsies often rely on transrectal ultrasound (TRUS)⁸, which creates black-and-white images of the prostate using sound waves, to know where to take samples from. But standard ultrasound may miss some areas containing cancer. Some newer techniques might help make TRUS more effective in finding prostate cancer.

- Color Doppler ultrasound: This technique measures blood flow within the prostate gland. (Tumors often have more blood vessels around them than

normal tissue.) It may make prostate biopsies more accurate by helping to ensure the right part of the gland is sampled.

- **Contrasted-enhanced Doppler ultrasound:** Doppler ultrasound might be enhanced even further by first injecting a person with a contrast agent that can help improve the images. Researchers are continuing to look for better contrast agents.
- **Transrectal elastosonography (TRES):** In this technique, ultrasound is used to help determine how stiff different parts of the prostate are. Because tumors tend to be stiffer than normal prostate tissue, this can help guide which parts of the prostate should be biopsied.
- **Micro-ultrasound:** This newer technique uses higher-frequency ultrasonic waves, which can help create more detailed images of the prostate.

Another approach combines MRI and TRUS images to help guide prostate biopsies, especially in men who previously had negative TRUS-guided biopsies but the doctor still suspects have cancer. This test, known as MRI/TRUS fusion-guided biopsy, is discussed in Tests to Diagnose and Stage Prostate Cancer. This might be done using multiparametric MRI, which is discussed below.

19. (True/False) Determining the stage (extent) of prostate cancer plays a key role in determining a man's treatment options.

The Correct Answer is **True**

Determining the stage (extent) of prostate cancer plays a key role in determining a man's treatment options. But imaging tests for prostate cancer, such as CT and MRI scans, might not detect all areas of cancer, especially small areas of cancer in lymph nodes, so doctors are now looking at newer types of imaging tests.

Multiparametric MRI (mpMRI) can be used to help determine the extent of the cancer and how aggressive it might be, which might affect a man's treatment options. For this test, a standard MRI is done to look at the anatomy of the prostate, and then at least one other type of MRI (such as diffusion-weighted imaging [DWI], dynamic contrast-enhanced [DCE] MRI, or MR spectroscopy)

is done to look at other parameters of the prostate tissue. The results of the different scans are then compared to help find abnormal areas.

Enhanced MRI may help find lymph nodes that contain cancer cells. Patients first have a standard MRI. They are then injected with tiny magnetic particles and have another scan the next day. Differences between the 2 scans point to possible cancer cells in the lymph nodes. Early results of this technique are promising, but it needs more research before it becomes widely used.

Newer types of PET scans can also be helpful in detecting prostate cancer in different parts of the body. These newer tests use tracers, such as radioactive sodium fluoride, fluciclovine, choline, or carbon acetate. Some newer tests (known as PSMA PET scans) use radioactive tracers that attach to prostate-specific membrane antigen (PSMA), a substance that is often found in large amounts on prostate cancer cells. Some of these newer tests are now being used in many centers, while others are still being studied.

20. (True/False) There are several treatment methods for Prostate Cancer.

The Correct Answer is **True**

Newer tests and treatments are being developed, and improvements are being made to current prostate cancer treatment methods.

Determining if treatment is needed

An important area of research is determining which men with early-stage prostate cancer need to be treated right away, and which men might choose monitoring (active surveillance or observation) as a reasonable option.

Some newer molecular tests (also known as genomic tests) look for certain gene or protein changes in prostate cancer cells to help determine how quickly the cancer is likely to grow and spread. The results of one of these tests can be used to help determine if the cancer needs to be treated.

Surgery

Doctors are constantly improving the surgical techniques used to treat prostate cancer. The goal is to remove all of the cancer while lowering the risk of complications and side effects from the surgery.

Surgery to treat prostate cancer is most often done using robot-assisted prostatectomy. In this approach, several small cuts are made in the abdomen to insert long surgical tools, which the surgeon maneuvers while sitting at a control panel.

Benefits of this approach include quicker recovery times and less pain after surgery.

In a newer approach, known as single-incision robotic prostatectomy, the operation is done through only one small cut near a man's belly button. The hope is that using only one incision might cut down on pain and recovery times even further, although this still needs to be proven in studies.

Radiation therapy

As described in Radiation Therapy for Prostate Cancer, advances in technology are making it possible to aim radiation more precisely than in the past.

Current treatment methods, such as intensity-modulated radiation therapy (IMRT) and proton beam radiation, help doctors avoid giving radiation to normal tissues as much as possible.

In many centers, doctors are now using image-guided approaches to help aim radiation more precisely as well. Because the prostate might be in a slightly different position in the body each day, getting an imaging test (such as MRI) before each treatment (or even during treatment) can help ensure the radiation is aimed exactly where the doctor wants it to go.

These newer methods may increase the effectiveness of radiation therapy while reducing the side effects.

Technology is making other forms of radiation therapy more effective as well. New computer programs allow doctors to better plan the radiation doses and

approaches for both external radiation therapy and brachytherapy. Planning for brachytherapy can now even be done during the procedure (intraoperatively).

Newer treatments for early-stage cancers

Researchers are looking at newer forms of treatment for early-stage prostate cancer. These new treatments might be used either as the first treatment or if cancer remains after radiation therapy.

For example, doctors are now looking at whether ablative treatments can be helpful for these cancers. These treatments use extreme heat, cold, or other methods to destroy (ablate) tumors. Examples include cryotherapy, high-intensity focused ultrasound (HIFU), photodynamic therapy (PDT), and focal laser ablation (FLA).

The safety and effectiveness of these treatments are now being studied. While some of these are now available, most doctors in the United States don't consider them to be proven first-line treatments for prostate cancer at this time.

Nutrition and lifestyle changes

Many studies have looked at the possible benefits of specific nutrients (often as supplements) in helping to treat prostate cancer, although so far none have shown a clear benefit. Some compounds being studied include extracts from pomegranate, green tea, broccoli, turmeric, flaxseed, and soy.

It's important for men thinking about taking any type of nutritional supplement to talk to their health care team first. They can help you decide which ones you can use safely while avoiding those that might be harmful.

Hormone therapy

Several newer forms of hormone therapy have been developed in recent years. Some of these may be helpful when standard forms of hormone therapy are no longer working.

Some examples include abiraterone (Zytiga), enzalutamide (Xtandi), apalutamide (Erleada), and darolutamide (Nubeqa), which are described in [Hormone Therapy for Prostate Cancer](#). Others are now being studied as well.

Chemotherapy

Studies in recent years have shown that many chemotherapy drugs can affect prostate cancer. Some, such as docetaxel (Taxotere) and cabazitaxel (Jevtana), have been shown to help men live longer.

Other new chemo drugs and combinations of drugs are being studied as well.

Immunotherapy

The goal of immunotherapy is to boost the body's immune system to help fight off or destroy cancer cells.

Vaccines

Unlike vaccines against infections like measles or mumps, prostate cancer vaccines are designed to help treat, not prevent, prostate cancer. One possible advantage of these types of treatments is that they seem to have very limited side effects. An example of this type of vaccine is sipuleucel-T (Provenge).

Several other types of vaccines to treat prostate cancer are being tested in clinical trials.

Immune checkpoint inhibitors

An important part of the immune system is its ability to keep itself from attacking other normal cells in the body. To do this, it uses "checkpoint" 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.

Newer drugs that target these checkpoints (known as checkpoint inhibitors) have been shown to be useful in treating many types of cancer, including prostate cancers in which the cells have certain types of gene changes.

Chimeric antigen receptor (CAR) T-cell therapy

In this treatment, immune cells called T cells are removed from the patient's blood and altered in the lab so they have chimeric antigen receptors (CARs) on their surface. These receptors can be made to attach to proteins on the surface of prostate cells. The altered T cells are then multiplied in the lab and put back into the patient's blood. The hope is that they can then find the prostate cancer cells in the body and launch a precise immune attack against them.

This technique has shown some encouraging results against prostate cancer in early clinical trials, but more research is needed to see how useful it can be. CAR T-cell therapy is a complex treatment with potentially serious side effects, and it is only available in clinical trials at this time.

Targeted therapy drugs

Newer drugs are being developed that target specific parts of cancer cells or their surrounding environments. Each type of targeted therapy works differently, but they all alter the way a cancer cell grows, divides, repairs itself, or interacts with other cells.

PARP inhibitors

In some men with prostate cancer, the cancer cells have mutations in DNA repair genes (such as *BRCA2*) that make it hard for cancer cells to fix damaged DNA. Drugs called PARP inhibitors work by blocking a different DNA repair pathway. Cancer cells are more likely to be affected by these drugs than normal cells.

PARP inhibitors, such as olaparib, rucaparib, niraparib, and talazoparib, can now be used along with hormone therapy to treat advanced prostate cancers if the cells have changes in a DNA repair gene.

Monoclonal antibodies

These are manmade versions of immune proteins that can be designed to attach to very specific targets on cancer cells (such as the PSMA protein on prostate cancer cells).

For prostate cancer, most of the monoclonal antibodies being studied are linked to chemo drugs or to small radioactive molecules. The hope is that once injected into the body, the antibody will act like a homing device, bringing the drug or radioactive molecule directly to the cancer cells, which might help them work better. Several monoclonal antibodies are now being studied in clinical trials.

Treating prostate cancer that has spread to the bones

Doctors are studying the use of several newer approaches to treating prostate cancer that has spread to one or more areas in the bones, especially if radiation therapy isn't working.

Several of these are ablative treatments, in which extreme heat or cold is used on bone tumors to help ablate (destroy) them. Examples include:

- High-intensity focused ultrasound (HIFU)
- Radiofrequency ablation (RFA)
- Cryoablation (cryotherapy)

Questions and Comments?

References and Resources Credit Given to:

Nelson WG, Antonarakis ES, Carter HB, DeMarzo AM, DeWeese TL. Chapter 81: Prostate Cancer. In: Niederhuber JE, Armitage JO, Doroshow JH, Kastan MB, Tepper JE, eds. *Abeloff's Clinical Oncology*. 6th ed. Philadelphia, Pa: Elsevier; 2020.

Yang XJ. Interpretation of prostate biopsy. UpToDate. 2023. Accessed at <https://www.uptodate.com/contents/interpretation-of-prostate-biopsy> on June 23, 2023.

Yang XJ. Precancerous lesions of the prostate: Pathology and clinical implications. UpToDate. 2023. Accessed at <https://www.uptodate.com/contents/precancerous-lesions-of-the-prostate-pathology-and-clinical-implications> on June 23, 2023.

Zelevsky MJ, Morris MJ, Eastham JA. Chapter 70: Cancer of the Prostate. In: DeVita VT, Lawrence TS, Rosenberg SA, eds. *DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology*. 11th ed. Philadelphia, Pa: Lippincott Williams & Wilkins; 2019.

American Cancer Society. *Facts & Figures 2024*. Atlanta: American Cancer Society; 2024.

National Cancer Institute. SEER Cancer Stat Facts: Prostate Cancer. Accessed at <https://seer.cancer.gov/statfacts/html/prost.html> on June 23, 2023.

National Cancer Institute. SEER*Explorer: An interactive website for SEER cancer statistics [Internet]. Surveillance Research Program; 2023 Apr 19. [updated: 2023 Jun 8; cited 2023 Jun 23]. Accessed at <https://seer.cancer.gov/statistics-network/explorer/> on June 23, 2023.

André T, Cohen R, Salem ME. Immune Checkpoint Blockade Therapy in Patients With Colorectal Cancer Harboring Microsatellite Instability/Mismatch Repair Deficiency in 2022. *Am Soc Clin Oncol Educ Book*. 2022 Apr;42:1-9. doi: 10.1200/EDBK_349557. PMID: 35471834.

National Comprehensive Cancer Network (NCCN). NCCN Clinical Practice Guidelines in Oncology: Colon Cancer. V.4.2023. Accessed at https://www.nccn.org/professionals/physician_gls/pdf/colon.pdf on Jan 29, 2024.

National Comprehensive Cancer Network (NCCN). NCCN Clinical Practice Guidelines in Oncology: Rectal Cancer. V.6.2023. Accessed at https://www.nccn.org/professionals/physician_gls/pdf/rectal.pdf on Jan 29, 2024.

Quintanilha JCF, Graf RP, Fisher VA, Oxnard GR, Ellis H, Panarelli N, Lin DI, Li G, Huang RSP, Ross JS, Myer PA, Klempner SJ. Comparative Effectiveness of Immune Checkpoint Inhibitors vs Chemotherapy in Patients With Metastatic Colorectal Cancer With Measures of Microsatellite Instability, Mismatch Repair, or Tumor Mutational Burden. *JAMA Netw Open*. 2023 Jan 3;6(1):e2252244. doi: 10.1001/jamanetworkopen.2022.52244. PMID: 36689222; PMCID: PMC9871803.

Handout #1 - Take the Quiz: Prostate Cancer

Don't be fooled by rumors and misinformation about prostate cancer. Get the facts. Test your knowledge of common beliefs about prostate cancer.

- 1. (True/False) The prostate is located on the inside the upper back, near the kidneys.**
- 2, (True/False) Men of any age can get prostate cancer.**
- 3. (Ture/False) Prostate cancer often causes men to have trouble passing urine.**
- 4. (True/False) Prostate cancer always needs to be treated right away.**
- 5. (True/False) All men should be tested for prostate cancer.**
- 6. (True/False) There's nothing that can be done to lower your chances of getting prostate cancer.**
- 7. (True/False) Prostate cancer begins when cells in the prostate gland start to grow out of control.**
- 8. (True/False) Prostate Cancer occurs when the cells within the Prostate begin to die.**
- 9. (True/False) There is only one type of Prostate Cancer.**
- 10. (True/False) Most Prostate Cancers grow slowly.**

- 11. (True/False) Prostate Cancer is the most common cancer among men.**
- 12. (True/False) In the United States, very few men will be diagnosed with prostate cancer and very few men will die from prostate cancer.**
- 13. (True/False) 7 out of 8 men will get Prostate Cancer in their lifetime.**
- 14. (True/False) The number of deaths for Prostate Cancer is rapidly growing in the United States.**
- 15. (True/False) New research on gene changes in prostate cancer cells is helping scientists better understand how prostate cancer develops**
- 16. (True/False) Researchers continue to look for ways and methods of preventing Prostate Cancer.**
- 17. (True/False) The prostate-specific antigen (PSA) blood test is a perfect test for finding prostate cancer early**
- 18. (True/False) Doctors diagnosing Prostate cancer can use biopsies of the Prostate.**
- 19. (True/False) Determining the stage (extent) of prostate cancer plays a key role in determining a man's treatment options.**
- 20. (True/False) There are several treatment methods for Prostate Cancer.**