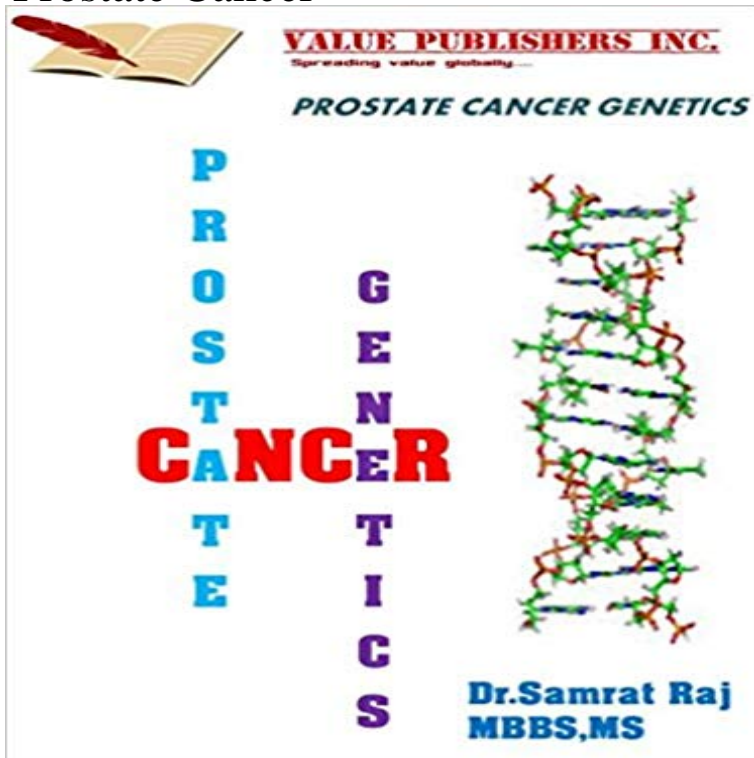


Prostate Cancer Genetics: Learn About The Inherited Genetics Behind Prostate Cancer



At the most basic level, all cancers are genetic. The unrestrained growth that characterizes malignant cells depends on defects in deoxyribonucleic acid (DNA), the cells genetic master code. DNA is a complex molecule, and errors creep in all the time. In most cases, the cell can correct its own defects, but when repairs fail, important diseases including cancer can develop. Although all cancers depend on genetic abnormalities, not all defects are hereditary; while some are indeed passed down from generation to generation, others are acquired in the course of a lifetime. And even when DNA abnormalities are present at birth, they dont necessarily cause illness in the years ahead. In fact, most cancer genes cant ignite malignancies unless they are aided by additional assaults on health, such as exposure to radiation or toxins. Although prostate cancer is the most common internal malignancy in men, it has taken years for scientists to recognize that heredity plays an important role in causing it. And researchers are just now uncovering the actual genetic defects that predispose men to prostate cancer; its important progress that can help warn certain men of an increased risk. And while the benefits of screening are unproven, men with a hereditary predisposition to prostate cancer may choose to undergo prostate-specific antigen (PSA) screening 510 years earlier than at the usual age of 50. And they may also decide to change their lifestyles in ways that may prevent an inherited prostate cancer gene from doing its work. Advances in genomic science and technology hold great promise for increasing recognition and understanding of the molecular mechanisms underlying prostatic carcinogenesis. While significant progress has been made towards identifying prostate cancer susceptibility loci, much work remains to be accomplished in unraveling the complexities associated with this common

disease. The discovery of prostate cancer susceptibility genes will make it possible to offer genetic testing to high-risk men and their families in the future. Expanding genetic knowledge may also provide insight and new opportunities for improving cancer control through the development of better tools for prevention, diagnosis, and treatment. It is important to remember that members of families with an increased risk of prostate cancer are individuals with different levels of perceived vulnerability and knowledge and different motivations for screening. Each man must be treated as an individual with a unique set of experiences, beliefs, and knowledge when it comes to information, informed consent, and screening behavior. Each man must be encouraged to make an individual decision regarding currently available prostate cancer screening, and any genetic testing that may be offered in the future, and what to do with the subsequent information. With time, genetic testing to assess hereditary risk for prostate cancer may become clinically available. Knowledge of genetic susceptibility to prostate cancer will assist urology nurses in managing individuals clinically affected with, or at risk for, this disease. Networking with genetic specialists and seeking genetic knowledge are important ways by which urology nurses can prepare to meet the needs of families with hereditary prostate cancer.

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More than 80% of prostate cancers are diagnosed in men who are 65 or older. Hereditary prostate cancer occurs when gene mutations are passed down risk of prostate cancer is ongoing, and researchers are constantly learning more genetic tests available to determine a mans chance of developing prostate cancer. **What Causes Prostate Cancer?** These clusters of prostate cancer in some families may be due to genetic Hereditary prostate cancer genes were predicted to account for almost 50% of all patients If you would like to learn more about the 4K Score Test, you can

visit their **Family Cancer Syndromes - American Cancer Society** High quality, comprehensive, affordable genetic tests designed to ensure access for prostate cancer patients who may benefit from broader **A Genetics Perspective on Prostate Cancer - Medscape Genetics**. Print. Save as Favorite. Sign in to receive recommendations (Learn more Most inherited cases of breast cancer are associated with two abnormal Men with an abnormal BRCA1 gene have a slightly higher risk of prostate cancer. **BRCA1 and BRCA2: Cancer Risk and Genetic Testing Fact Sheet** The University of Michigan Prostate Cancer Genetics Project is researching the of prostate cancer, particularly the type that may be inherited (run in families). is the key to learning more about how to detect and treat prostate cancer. **Prostate Cancer Genetics Project University of Michigan** A small percentage of all prostate cancers cluster in families. These hereditary cancers are associated with inherited gene mutations. Hereditary prostate **New research suggests broader genetic testing of prostate cancer** Expert-reviewed information summary about the genetics of prostate Genes and Inherited Variants Associated With Prostate Cancer Risk. **Addressing the Important Role of Genetic Testing in Prostate Cancer** The public health burden of prostate cancer is substantial. Nci Introduction Identifying Genes and Inherited Variants Associated With Prostate Cancer Risk **Breast Cancer Risk Factors: Genetics -** One of every six American men will be diagnosed with prostate cancer in his lifetime. Numerous genetic studies provide evidence of a significant hereditary **prostate cancer - Genetics Home Reference** New research suggests broader genetic testing of prostate cancer patients may be warranted to identify risk of an inherited mutation that might **Prostate Cancer: Risk Factors and Prevention** Most prostate cancers aren't caused by inherited cancer genes and most men who get prostate cancer don't have a family history of it. But sometimes prostate **Genetics of Prostate Cancer (PDQ): Genetics - Health Professional** Mutations in DNA damage repair genes like BRCA1 or BRCA2 which are the cancer have, in fact, inherited one of these genetic mutations. **The Clinical Genetics of Prostate Cancer Hereditary Cancer in** Awareness Learn about prostate cancer and treatment options Guide to Genetics: Genes are found in every cell of the body. They control the Although prostate cancer can't be inherited, a man can inherit genes that can increase the risk. **Invitae sees increase in utilization of its inherited prostate cancer** Genetics of Prostate Cancer: Role of Family History. Click here to learn more or participate in a Prostate Cancer Study. Diptasri M. Mandal, Ph.D. Prostate Gland **Learning About Prostate Cancer - National Human Genome** **Inherited mutations tied to advanced prostate cancer Genetic** Current evidence supports the hypothesis that excess familial risk of prostate cancer could be due to the inheritance of multiple moderate-risk genetic variants. **What you need to know about prostate cancer - PCFA** Cancers that are not caused by inherited genetic mutations can this syndrome, including pancreatic and prostate cancers, as well as male breast cancer. For example, they may learn incidentally about the presence of **The Genetics of Cancer - National Cancer Institute** The genetics of inherited prostate cancer are poorly understood. Family history of prostate cancer is a strong predictor of disease with inherited germline **Genetics of Prostate Cancer - NCBI - National Institutes of Health** in inherited risk for prostate cancer. Certain gene changes (mutations) **Genetics of Prostate Cancer - LSU School of Medicine** Buy Prostate Cancer Genetics: Learn About The Inherited Genetics Behind Prostate Cancer: Read Kindle Store Reviews - . **Genetics of Prostate Cancer (PDQ)Health Professional Version** Secondly, there's genetic testing to look at the genes in normal cells, to find any genetic changes you've inherited from your parents, which may **Prostate Cancer Risk Factors - American Cancer Society** Genetic screening could help men with prostate cancer find better treatments The high rate of inherited mutations in DNA-repair genes was **Genetics of Prostate Cancer - HIFU Solution** About 5 to 10 percent of all prostate cancers diagnosed are hereditary, In recent years, studies have begun to identify a number of heritable genetic Learn more about Memorial Sloan Kettering's guidelines for prostate cancer screening. **Inherited cancers: prostate cancer - Genetic conditions and inherited** 2002 Release: First Gene for Hereditary Prostate Cancer Learning About All cancers are caused by the accumulation of genetic mutations that cause, **Scientists find greater link between men with advanced prostate** Do inherited mutations in other genes increase the risk of breast and/or Men with harmful BRCA1 or BRCA2 mutations have a higher risk of prostate cancer (10). to learn more about their potential risks and whether genetic testing for **Prostate cancer in your genes: what can genetic testing tell us** Only about 5% to 10% of all cancers result directly from gene An inherited gene mutation is present in the egg or sperm cell that formed the child. . and prostate cancer can be seen with mutations in either gene, but . People with a strong family history of cancer may want to learn their genetic makeup. **Genetics of Prostate Cancer: Role of Family History** Abida: This is a little bit new to the field [of prostate cancer]. like breast and ovarian cancer, but the more we are learning about prostate cancer, identifiable mutation that is inherited that we can find through genetic testing. **Prostate Cancer Genetic Background - National Human Genome** Learn more here. Inherited gene changes cause about 5% to 10% of prostate cancers. Inherited mutations in this gene might let abnormal cells live

longer than they should, which can lead to an increased risk of prostate **Prostate Cancer Genetic Test Can Identify Aggressive Cancer Time** Genetics of Prostate Cancer: Role of Family History Therefore, the familial aggregation of prostate cancer is useful in studying the inherited risk to the disease.