



Genetic testing for hereditary prostate cancer

PATIENT GUIDE





The genetics of prostate cancer

~13% of patients with prostate cancer have an inherited genetic change (variant) that increases their risk of developing certain cancers.¹ A genetic variant is a change in the DNA sequence that makes up a gene. Some genetic variants, such as those in the *BRCA2* gene, are associated with more aggressive disease and increased risk of developing future cancers.²

Categories of prostate cancer

SPORADIC

occurs by chance and is not linked to inherited genetic variants

FAMILIAL

runs in the family but is due to a combination of genetic and other factors

HEREDITARY

passed down from parent to child through a gene variant

1 in 8

men will develop prostate cancer in their lifetime³

Assess your inherited risk of prostate cancer prior to symptoms



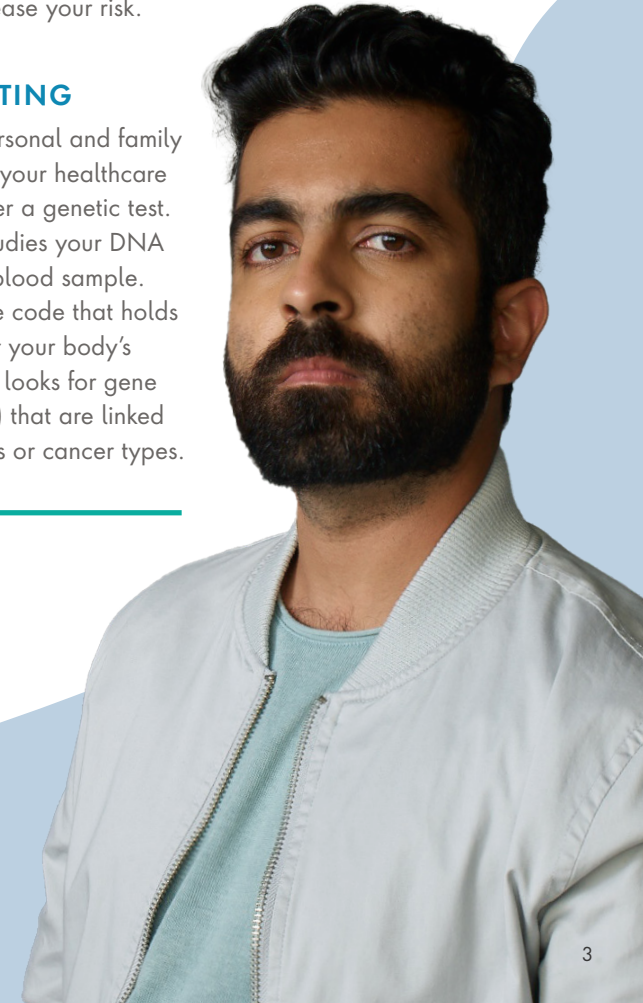
FAMILY HISTORY

You may be asked about your family's history of cancer to help assess your risk of cancer and chance of carrying a genetic variant that could further increase your risk.



GENETIC TESTING

Based on your personal and family history of cancer, your healthcare provider may order a genetic test. Genetic testing studies your DNA using a saliva or blood sample. DNA is the unique code that holds the instructions for your body's functions. The test looks for gene changes (variants) that are linked to certain diseases or cancer types.



The benefits of genetic testing

Results can help guide health management for both you and your family.



- ✓ Make informed health choices, including options to help prevent cancer.
- ✓ Know which of your family members are at risk and may benefit from genetic testing.
- ✓ Detect cancer at an earlier and more treatable stage.
- ✓ Assess your risk of future cancers.
- ✓ See if you qualify to take part in clinical trials and research studies. [ciitizen.com/join-us](https://www.ciitizen.com/join-us)

Genes tested on Invitae's Prostate Cancer Panel

ATM	CHEK2	MLH1	PMS2
ATR	EPCAM	MSH2	RAD51C
BRCA1	FANCA	MSH6	RAD51D
BRCA2	GEN1	NBN	TP53
BRIP1	HOXB13	PALB2	



What are the potential results?



POSITIVE

If testing finds you're at increased risk of cancer, talk with your healthcare provider about next steps. They can also help assess which family members may benefit from genetic testing to see if they have the same gene variant as you. Invitae offers family testing for blood relatives within 90 days of your test report date at no additional charge.

Learn more at [invitae.com/patients/family-testing](https://www.invitae.com/patients/family-testing)



NEGATIVE

If testing identifies no gene changes known to increase your risk for cancer, your risk depends on your personal and family history. This also does not rule out other genetic conditions. Talk with your healthcare provider about what they recommend.



VARIANT OF UNCERTAIN SIGNIFICANCE

In some cases, testing can identify a variant, but it is not known at this time whether it increases your risk for cancer. In this case, your next steps should be based on your personal and family history.

Simple billing, no surprises

Within the United States



INSURANCE

You do not need to contact your insurance company to find out if testing is covered or to be reimbursed. Invitae works with them on coverage and payment.



MEDICARE & FINANCIAL ASSISTANCE

Invitae accepts Medicare and Medicaid. If you qualify for assistance, we may also offer you testing at limited or no charge.



BILLING
QUESTIONS?

1-800-436-3037
clientservices@invitae.com

How to order



STEP 1

Your healthcare provider will place an order for you.



STEP 2

Provide a saliva, blood or cheek swab sample (depends on your test order).



STEP 3

Invitae sends results to your healthcare provider in 14–21 calendar days.

Have questions about your test results?

FIND A GENETIC COUNSELOR

If you're not working with one, Invitae can help you find a local genetic counselor. We also offer genetic counseling services at no additional charge to discuss your results and what they mean for you and your family.

SPEAK WITH A GENETIC COUNSELOR AT NO CHARGE

Invitae offers one genetic counseling session with each test at no additional charge. During this session, an experienced genetic counselor reviews your personal and family medical histories. They explain what your genetic test results mean for you and your family.



Learn more:
[invitae.com/here-for-you](https://www.invitae.com/here-for-you)

Invitae is a genetics company with a mission to bring comprehensive genetic information into mainstream medicine to improve healthcare for everyone. Invitae testing provides answers to essential health questions—from understanding disease risk to guiding a healthy pregnancy or finding a diagnosis.

References

1. Samadder NJ, et al. Comparison of universal genetic testing vs guideline-directed targeted testing for patients with hereditary cancer syndrome. *JAMA Oncol.* 2021;7(2):230–237
2. Mitra A, et al. Prostate cancer in male BRCA1 and BRCA2 mutation carriers has a more aggressive phenotype. *Br J Cancer.* 2008;98(2):502–507.
3. Key statistics for prostate cancer: Prostate cancer facts. American Cancer Society. Accessed April 29, 2022. <https://www.cancer.org/cancer/prostate-cancer/about/key-statistics.html#:~:text=About%201%20man%20in%208,rare%20in%20men%20under%2040.>

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