Overview

Scientific Details

Frequently Asked Questions

Print

BRCA1/BRCA2 (Selected Variants)

Specific genetic variants in the BRCA1 and BRCA2 genes are associated with an increased risk of developing certain cancers, including breast cancer (in women and men) and ovarian cancer. These variants may also be associated with an increased risk for prostate cancer and certain other cancers. This test includes three genetic variants in the BRCA1 and BRCA2 genes that are most common in people of Ashkenazi Jewish descent.

play+543f4850c5, you do not have two of the three genetic variants we tested.

Your result could not be determined for one variant. More than 1,000 variants in the BRCA1 and BRCA2 genes are known to increase cancer risk, so you could also have a variant not included in this test. In addition, most cases of breast and ovarian cancer are not caused by inherited variants, so women without a variant are still at risk of developing these cancers. It's important to continue with any cancer screenings your healthcare provider recommends.





testing options.

The test may not be able to determine a result for every variant tested. This can be caused by random test error or other factors that interfere with the test. If you have a personal or family history of cancer, you should talk to a healthcare professional about other

How To Use This Test

health conditions and should not be used to make medical decisions. Results should be confirmed in a clinical setting before taking any medical action. Please talk to a healthcare professional if cancer

This test does not diagnose cancer or any other

runs in your family, you think you might have cancer, or you have any concerns about your results.

Review the BRCA1/BRCA2 (Selected Variants)

See Frequently Asked Questions

See Scientific Details for complete Indications for

tutorial

Use statement and full list of Warnings, Precautions, and Limitations

· Tests for three specific genetic variants: the 185delAG and 5382insC variants in the BRCA1 gene and the 6174delT variant in the BRCA2 gene. These

Intended Uses

- variants are associated with an increased risk of developing certain cancers. · Provides information on whether a person's genetic result is associated with an increased risk for breast and ovarian cancer and may be associated with
- an increased risk for prostate cancer and certain other cancers. Limitations

 Does not test for all possible variants in the BRCA1 and BRCA2 genes. More than 1,000 variants in these genes are known to increase cancer risk. Only

three of those variants are included in this test.

Does not test for variants in other genes linked to hereditary cancers.

Does not account for non-genetic factors, like environment and lifestyle, that

 The interpretation of your genetic result depends on the sex you reported in your account settings.

Important Ethnicities The variants included in this test are most commonly found in people of

influence overall cancer risk.

- Ashkenazi Jewish descent. In 23andMe customers of other ethnicities, between 0% and 0.1% of individuals has one of the three variants in this This test does not include the majority of BRCA1 and BRCA2 variants found
- in people of other ethnicities. Therefore, a "variants not detected" result is less informative for people with no Ashkenazi Jewish ancestry.

hereditary breast and ovarian cancer. But your result could not be determined for one variant. Women without these variants are still at risk for breast and ovarian cancer, because most cases of breast and ovarian cancer are caused by other factors.

You do not have two of the three variants we tested linked to



You do not have the 185delAG variant in the BRCA1 gene or the 6174delT variant in the BRCA2 gene. The three variants in this report are most commonly found in people of Ashkenazi Jewish descent and do not account for the

Your result could not be determined for the

5382insC variant in the BRCA1 gene.

majority of BRCA1 and BRCA2 variants in people of other ethnicities. You could still have a variant not included in this test. See Scientific Details

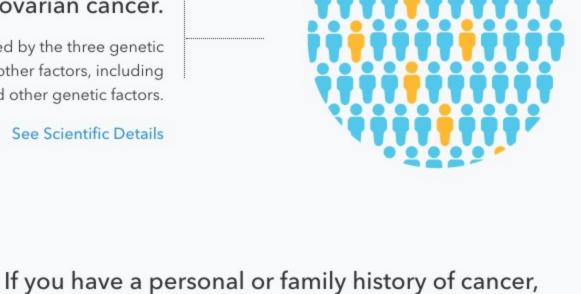
In the general population, about 1 in 8 women

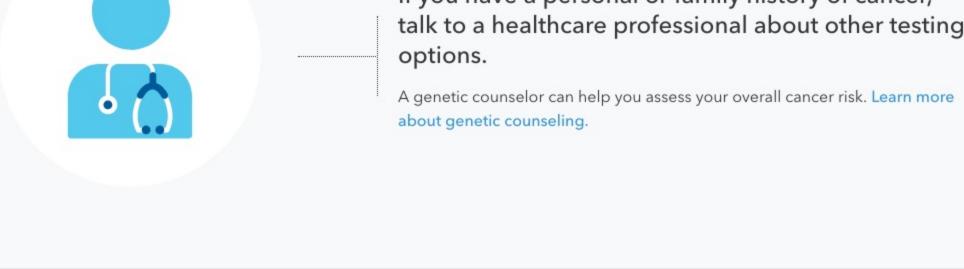
See Scientific Details

Only a small percentage of these cancers are caused by the three genetic variants in this report. Your risk is influenced by many other factors, including lifestyle, family history, and other genetic factors.

develops breast cancer during her lifetime, and

about 1 in 80 women develops ovarian cancer.





about genetic counseling.

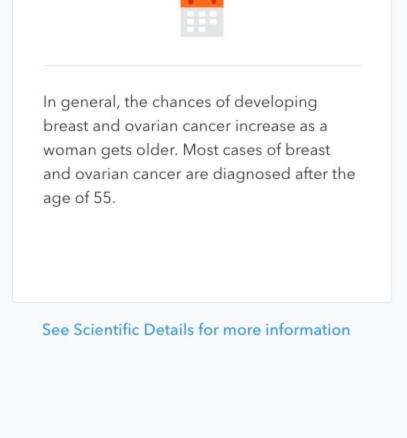
Family history

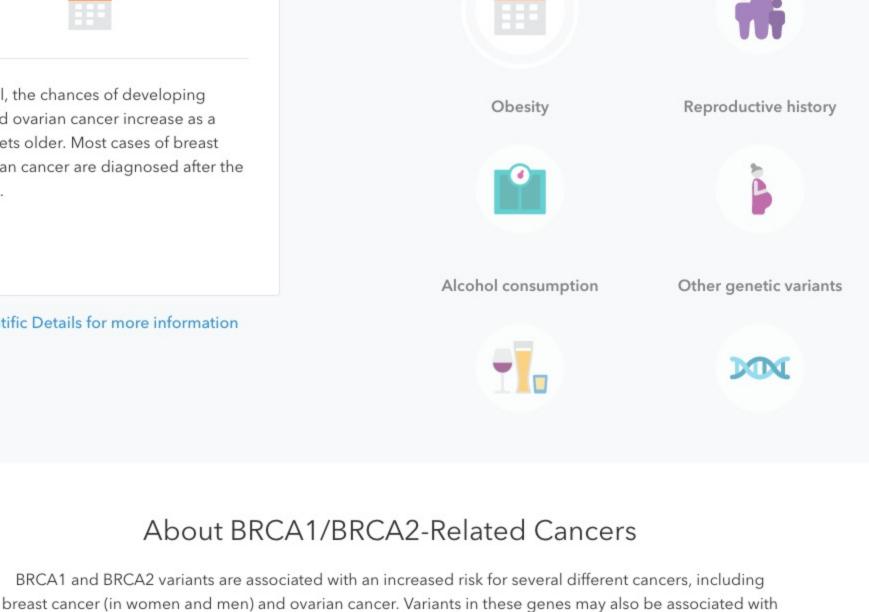
Lifestyle, family history, and other factors can also influence

the chances of developing breast and ovarian cancer.

Consult with a healthcare professional before making any major lifestyle changes.

Age





BRCA1 and BRCA2 variants in general, including the three variants in this report.

an increased risk for prostate cancer, pancreatic cancer, and melanoma. The risk estimates below apply to

Lifetime cancer risks How common are BRCA1 and BRCA2 variants? Women with a BRCA1 variant have a 45-85% chance of About 1 in 400 people in the general population has a developing breast cancer by age 70 and a 39-46% chance BRCA1 or BRCA2 variant linked to hereditary breast and of developing ovarian cancer. They may also have an ovarian cancer, although most of those variants are not



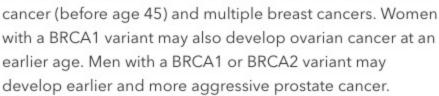
increased risk for pancreatic cancer.

 Men with a BRCA1 or BRCA2 variant have an increased risk for male breast cancer and may have an increased risk for prostate cancer, pancreatic cancer, and melanoma. See Scientific Details to learn more about these risks

Women with a BRCA2 variant have a 45-85% chance of

When these cancers develop In general, the chances of developing cancer increase as a

BRCA2 variant have an increased risk for early-onset breast



person gets older. However, women with a BRCA1 or

Read more at: National Cancer Institute GeneReviews

variants in this report). Screening and prevention

included in this report. Among people of Ashkenazi Jewish

descent, about 1 in 40 has a variant (usually one of the three

Guidelines recommend that women with a BRCA1 or BRCA2 variant should be screened for breast cancer earlier and more often. However, there are currently no ovarian cancer screening tests that have been proven safe and effective. For women with a BRCA1 or BRCA2 variant, surgery and medication have been shown to be effective in reducing the

Men with a BRCA1 or BRCA2 variant should be screened for male breast cancer. Screening guidelines for prostate cancer vary. Always consult with a healthcare professional before taking

risk of developing breast and ovarian cancer.

FAQs

professional.



If you have a personal or family history of cancer, consult with a healthcare

Privacy `

Learn more about BRCA1/BRCA2-related cancers.

See our Frequently Asked Questions for more information.

any medical action.



Terms of Service

Print report

Learn more about cancer screening to help you and your doctor create a screening plan that's right for you.

Learn more



©2018 23andMe, Inc.

Receive up to \$20 when you refer family and friends to 23 and Me. Get started today.

Help

Frequently Asked Questions Overview Scientific Details

REPORTS

HOME

BRCA1/BRCA2 (Selected Variants) **Scientific Details**

RESEARCH

play+543f4850c5 ... ∨

Print

Specific genetic variants in the BRCA1 and BRCA2 genes are associated with an increased risk of developing certain cancers, including breast cancer (in women and men) and ovarian cancer. These variants may also be associated with an increased risk for prostate cancer and certain other cancers. This test includes three genetic variants in the BRCA1 and BRCA2 genes that are most common in people of Ashkenazi Jewish descent.

TOOLS

increased risk for certain hereditary cancers. This report includes two variants in the BRCA1 gene and one variant in the BRCA2 gene. These three variants do not account for the majority of the BRCA1 and BRCA2 variants in the general population. More than 1,000 variants in these genes are known to increase

Genetic variants in the BRCA1 and BRCA2 genes are associated with an

cancer risk. **BRCA1** BRCA2

Chromosome 17

The BRCA1 gene contains instructions for making a protein that helps repair damaged DNA. The BRCA1 protein also helps control the process of cell division. Through both of these functions, the BRCA1 protein acts as a tumor

suppressor, preventing cells from growing and dividing too rapidly. Certain variants in the BRCA1 gene disrupt the protein's function. This can lead to a buildup of DNA errors, and can cause normal cells to become cancer cells. Read more at Genetics Home Reference

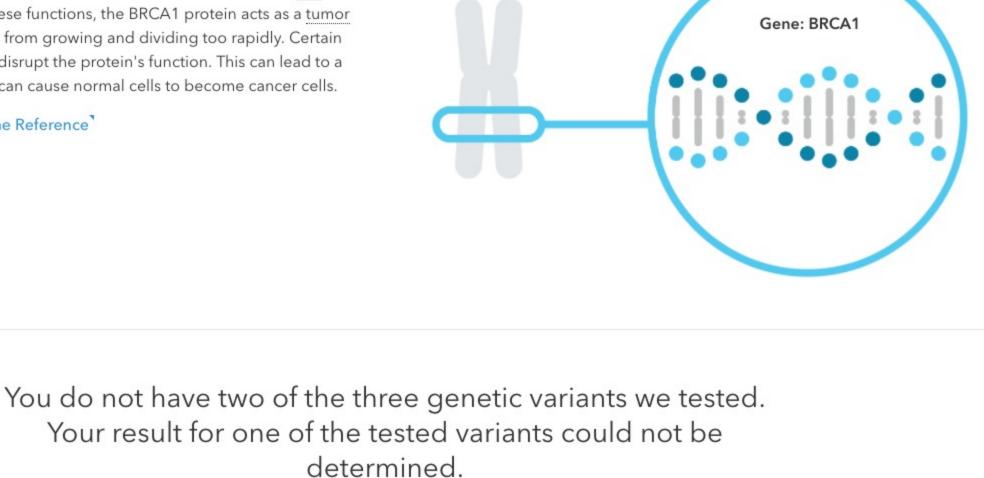
Variants Detected

Marker Tested

185delAG

Gene: BRCA1

Marker:



View All Tested Markers

Your Genotype* Biological explanation CT CT Typical copy from one Typical copy from Typical vs. variant DNA sequence(s) of your parents your other parent

Additional Information

rs386833395	of your parents your other parent	 Percent of 23andMe customers with variant References [1, 12, 23, 36, 40, 42, 59, 60, 67, 97, 98, 103, 104, 116] ClinVar³
5382insC Gene: BRCA1 Marker: rs80357906	Not determined	 Biological explanation Typical vs. variant DNA sequence(s) Percent of 23andMe customers with variant References [1, 12, 40, 42, 53, 59, 79, 97, 98, 99, 104, 108, 116, 120] ClinVar
6174delT Gene: BRCA2 Marker: rs80359550	T Typical copy from one of your parents T Typical copy from your other parent	 Biological explanation Typical vs. variant DNA sequence(s) Percent of 23andMe customers with variant References [1, 12, 18, 23, 38, 40, 42, 43, 59, 82, 85, 97, 98, 102, 104, 116] ClinVar
his test cannot distinguish w rom both parents. This may i	mpact how these variants are passed down.	neral population. Innot determine whether multiple <u>variants</u> , if detected, were inherited from only one parent or e reference sequence (build 37). Other sources sometimes report genotypes using the opposite

cases, these estimates represent a general risk for individuals with any BRCA1 or BRCA2 variant, not the specific risk estimates associated with the three variants in this report. This test does not take into account

genotype and a health condition.

Numerical risk estimates are not available for

people who have both a BRCA1 and a BRCA2 variant. An interpretation of "increased risk" is provided to people with this result. It is likely

that their risk is at least as high as the risk for

people with just one variant. More research is needed to understand the risk for people with

This is not a complete list of other factors.

higher risk of developing cancer.

making any major lifestyle changes.

People with multiple risk factors may have a

Consult with a healthcare professional before

Health Risk Estimates The risk estimates shown below represent the proportion of people expected to develop a given Risk estimates are based on clinical studies cancer during their lifetime. Estimates for the general population are based on observed cancers that identify an association between a among people in the United States. Estimates for men and women with a BRCA1 or BRCA2 variant are

General

population

Lifetime risk

Test Interpretation

This report provides risk estimates for several cancers associated with BRCA1 and BRCA2 variants. In most

non-genetic factors that influence a person's overall risk for these cancers.

or during their lifetime (for men).

Cancer type

Breast (female) 12.4% 45-85% 45-85% this result. 10-27% Ovarian 1.3% 39-46% For some cancers, numerical risk estimates are not available. 7-8% Breast (male) 0.12% 1-2% Consider talking to a healthcare professional if you have any concerns about your results. Increased risk Prostate 11.6% May have an increased risk Pancreatic 1.6% May have an increased risk May have an increased risk References [30, 54, 59, 61, 111, 112] 2.2% Melanoma Research ongoing May have an increased risk See risk estimates by ethnicity for the general population Other Factors The three genetic variants in this report are associated with a greatly increased risk for breast and ovarian cancer. They may also be associated with an increased risk for pancreatic cancer and melanoma. However, other factors besides the genetic variants in this report can influence your chances of developing these cancers.

increase with age. Family history

Other Factors

Age

Obesity

Hormone exposure

Smoking

all cases.

than one affected family member. The risk is also greater in families with members diagnosed with cancer at an earlier age. This increased risk is likely due to shared genetic and non-genetic factors. A family history of pancreatic cancer or melanoma also increases a person's risk for those cancers.

> Women who started menstruating at a young age or who experience menopause at an older age have a higher risk of developing breast and ovarian cancer. Conversely, having children and breastfeeding are associated with a lower risk for these cancers. Scientists think that reproductive history affects breast and ovarian cancer risk by altering estrogen levels in the body. Factors that increase the amount of time a woman is exposed to estrogen are often associated with an increased risk for these cancers. Alcohol consumption Drinking alcohol increases the chances that a woman will develop breast cancer. The risk increases with greater alcohol consumption and does not

risk may be due to changes in hormone levels caused by drinking alcohol.

increased risk for ovarian cancer. The use of oral contraceptives is linked to a decreased risk for ovarian cancer. Physical activity

Exposure to external sources of the hormones estrogen and progesterone

affect a woman's chances of developing breast and ovarian cancer. For

associated with an increased risk for breast cancer. Current or recent use

example, certain hormone replacement therapy after menopause is

of hormone replacement therapy has also been associated with an

Test Details

The guidelines above cover the cancers associated with the three variants in this report. You can find information about

screening for other cancers from the American Cancer Society'. Note that guidelines from different healthcare professional

Keep in mind that you could still have a BRCA1 or BRCA2 variant not included in this report that could affect your cancer risk. In that case, different screening and prevention actions may be recommended. Consult with a healthcare professional to learn

cancer, and the absence of a variant tested does not rule out the presence of other variants that may be cancer-related. This test is not a substitute for visits to a healthcare provider for recommended screenings or appropriate follow-up and should not be used to determine any treatments. **Special Considerations**

recommended by any healthcare professional organizations.

depends on family history and other factors.

Test Performance Summary

Clinical Performance

Genetic testing for BRCA1 and BRCA2 variants in the general population is not currently

Cancer risk associated with a BRCA1 or BRCA2 variant varies from person to person. Exact risk

BRCA2 gene. The report describes if a woman is at increased risk of developing breast and ovarian cancer, and if a man is at increased risk of developing breast cancer or may be at increased risk of

developing prostate cancer. The three variants included in this report are most common in people of

general population. The test report does not describe a person's overall risk of developing any type of

Ashkenazi Jewish descent and do not represent the majority of the BRCA1/BRCA2 variants in the

Breast cancer

more.

Indications for Use

Women should receive regular

American Cancer Society.

mammograms depending on their age

and other factors. Learn more from the

organizations may differ in their recommendations.

addition, most cases of these cancers are not caused by inherited genetic variants. Approximately 5-10% of breast cancer cases, 10-15% of ovarian cancer cases, and 15-20% of male breast cancer cases are known to be caused by inherited variants in the BRCA1 and BRCA2 genes. This number is expected to be higher among individuals of Ashkenazi Jewish descent. The three variants in this report account for more than 90% of cancer-related BRCA1 and BRCA2 variants among people of Ashkenazi Jewish descent. These three variants account for a much smaller proportion of cancer-related BRCA1 and BRCA2 variants found in people of other ethnicities. About 1 in 40 people of Ashkenazi Jewish descent is expected to have one of the three variants in this report. These three variants are much less common in people of other ethnicities. In 23andMe customers of other ethnicities, between 0% and 0.1% of individuals (up to 1 in 1,000) has one of the three variants in this report.

Accuracy was determined by comparing results from this test with results from sequencing. Greater

than 99% of test results were correct. The 95% confidence interval was 83.9% to 100%. While unlikely, this test may provide false positive or false negative results. It is possible that the presence of certain

mutations in your sample may interfere with the performance of this test. The effects of the interfering mutations on the performance of this test have not been studied. For more details on the analytical

Analytical Performance

- for ovarian cancer. These increased risks may be due to differences in estrogen levels, insulin signaling, and inflammation in women who are overweight. Reproductive history [3, 10, 28, 29, 32, 46, 63, 74, 105, 109]
- Alcohol consumption has not been associated with an increased risk for ovarian cancer. Other genetic variants [76, 88, 100] More than 1,000 variants in the BRCA1 and BRCA2 genes have been linked to hereditary breast and ovarian cancer. Variants in other genes can also increase a woman's risk for breast and ovarian cancer. In some cases, risk is increased to levels similar to the risk conferred by BRCA1 and BRCA2 variants.
- Women who regularly engage in physical activity have a lower risk of developing breast cancer than women who rarely or never do. In one study, women who walked more than seven hours per week were less likely to develop breast cancer compared to women who walked less than three hours per week. Moderate and vigorous exercise can also decrease breast cancer risk. The links between physical activity and ovarian cancer risk are not yet well understood.

Smoking may be associated with an increased risk of developing breast

observed in women who have smoked heavily for many years. Smoking is also a strong risk factor for pancreatic cancer, accounting for about 25% of

cancer and certain types of ovarian tumors. The strongest effect is

- Cancer Screening Guidelines Cancer screening can help detect certain cancers at an earlier stage, when they may be more treatable. The guidelines below apply to people with an average risk of developing cancer. These guidelines may help you and your doctor create a screening plan that's right for you.
 - determine your overall risk of developing cancer in the future. · This test should not be used to make medical decisions. Results should be

any medical action.

impact cancer risk.

confirmed in a clinical setting before taking

could increase risk for cancer.* The absence

presence of other genetic variants that may

· This test does not cover all variants that

of a variant tested does not rule out the

· Other factors, such as environmental and

against screening for ovarian cancer in the general population. If you have a personal or family history of one of these cancers, please talk with a healthcare professional.

- lifestyle risk factors, may affect your risk of developing cancer. This test does not account for those factors, and does not test for variants in other genes linked to hereditary cancers. · Your ethnicity may affect how relevant this test is for you.
- presence of deterministic variants in autosomal dominant diseases or conditions. · This test is not a substitute for visits to a healthcare professional for recommended screenings. Consult with a healthcare

This test should not be used to assess the

presence of genetic variants that may

impact response to medications.

· This test is not intended to detect the

- speak to your doctor or a genetic counselor. See the Package Insert for more details on use and performance of this test.
- 3. American Cancer Society. "Breast Cancer Facts & Figures 2017-2018." Atlanta: American Cancer Society, Inc. 2017. 4. American Cancer Society. "Breast Cancer in Men." Retrieved March 5, 2018, from https://www.cancer.org/cancer/breast-cancer-in-men.html."
- 6. American Cancer Society. "Melanoma Skin Cancer." Retrieved March 5, 2018, from https://www.cancer.org/cancer/melanoma-skin-cancer.html." 7. American Cancer Society. "Ovarian Cancer." Retrieved March 5, 2018, from https://www.cancer.org/cancer/ovarian-cancer.html.
- 8. American Cancer Society. "Pancreatic Cancer." Retrieved March 5, 2018, from https://www.cancer.org/cancer/pancreatic-cancer.html."
- 10. Anderson KN et al. (2014). "Reproductive risk factors and breast cancer subtypes: a review of the literature." Breast Cancer Res Treat. 144(1):1-10." See all references V
 - Change Log Your report may occasionally be updated based on new information. This Change Log describes updates and revisions to this report.

References

- BRCA1/BRCA2 (Selected Variants) report created.

23andMe ©2018 23andMe, Inc. Date

April 9, 2018

Terms of Service

Change

9. American Cancer Society. "Prostate Cancer." Retrieved March 5, 2018, from https://www.cancer.org/cancer/prostate-cancer.html."

Receive up to \$20 when you refer family and friends to 23 and Me. Get started today. Privacy ` Help

based primarily on studies of people of European and Ashkenazi Jewish descent. Estimates for people with a BRCA1 or BRCA2 variant represent the risk of developing cancer by the age of 70 (for women)

BRCA1 variant

Risk by age

BRCA2 variant

References

[54, 101, 111]

[3, 63, 68, 76, 88, 90,

[3, 24, 34, 58, 63, 64,

[2, 3, 21, 49, 95, 110

[3, 22, 25, 27, 63, 72

[3, 35, 52, 69, 73, 77,

[3, 26, 45, 47, 68,

119]

110]

74, 80, 113]

118]

Like most cancers, the risk of developing breast and ovarian cancer generally increases with age. For the average woman in the U.S., the risk of developing breast cancer by age 40 is 1 in 200. That number rises to 1 in 8 by age 80. For ovarian cancer, the risk is 1 in 1,000 by age 40 and 1 in 100 by age 80. In general, the risks for pancreatic cancer and melanoma also Most women who develop breast and ovarian cancer don't have a family

history of these cancers. However, women whose mothers or sisters have

themselves. For both cancers, the risk is even greater in families with more

had breast or ovarian cancer are more likely to develop these cancers

After menopause, being overweight increases a woman's chances of

associated with an increased risk. In addition, obesity is associated with a higher risk for pancreatic cancer and may be associated with a higher risk

developing breast cancer. Weight gain during adulthood is also

seem to vary by type of alcohol consumed. Scientists think this increased

There are currently no specific screening Prostate cancer Men should talk with their doctor about guidelines for male breast cancer, the benefits and risks of prostate cancer pancreatic cancer, or melanoma. Although screening. Learn more from the American there are some conflicting Cancer Society'. recommendations, guidelines advise

Warnings, Precautions, and The 23andMe Personal Genome Service (PGS) uses qualitative genotyping to detect select clinically Limitations relevant variants in genomic DNA isolated from human saliva collected from individuals ≥18 years with the Oragene Dx model OGD500.001 for the purpose of reporting and interpreting genetic health · This test does not diagnose cancer or any risks, including the 23andMe PGS Genetic Health Risk Report for BRCA1/BRCA2 (Selected Variants). other health conditions and cannot The 23andMe PGS Genetic Health Risk Report for BRCA1/BRCA2 (Selected Variants) is indicated for reporting of the 185delAG and 5382insC variants in the BRCA1 gene and the 6174delT variant in the

ovarian, and prostate cancer. The three variants tested are associated with an increased risk of developing these cancers. However, some people who have these variants do not develop cancer. In

performance of this test, refer to the package insert.

early-onset breast cancer patients among Ashkenazi women." Am J Hum Genet. 60(3):505-14.

- [48, 50, 56, 57, 62, 71, 89, 93, 94, 108, 115, 116] The variants included in this report represent a very small subset of all those associated with breast, This test is intended to provide you with genetic information to inform conversations with your doctor or other healthcare professional. This device is not intended for prenatal testing.
 - Some people feel a little anxious after getting genetic health risk results. This is normal. If you feel very anxious, you should

* Variants not included in this test may be rare, may not be available on our genotyping platform, or may

not pass our testing standards.

professional if you have any questions or concerns about your results or your current

state of health.

- 1. Abeliovich D et al. (1997). "The founder mutations 185delAG and 5382insC in BRCA1 and 6174delT in BRCA2 appear in 60% of ovarian cancer and 30% of 2. Allen NE et al. (2009). "Moderate alcohol intake and cancer incidence in women." J Natl Cancer Inst. 101(5):296-305."
- 5. American Cancer Society. "Breast Cancer." Retrieved March 5, 2018, from https://www.cancer.org/cancer/breast-cancer.html."

HOME

Overview

REPORTS

Scientific Details

TOOLS

RESEARCH

Frequently Asked Questions





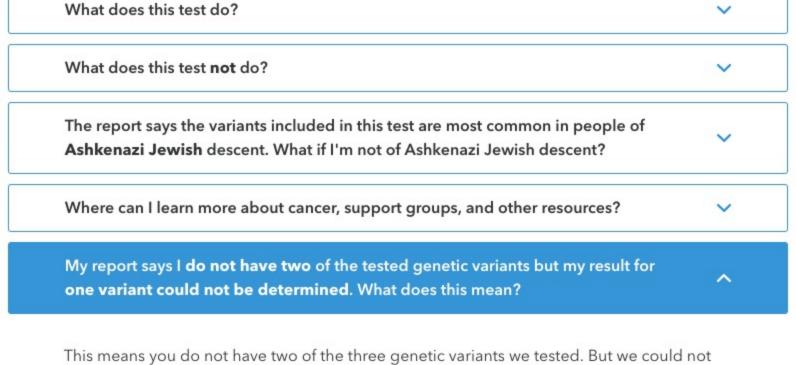
BRCA1/BRCA2 (Selected Variants)

Print

Frequently Asked Questions

Specific genetic variants in the BRCA1 and BRCA2 genes are associated with an increased risk of developing certain cancers, including breast cancer (in women and men) and ovarian cancer. These variants may also be associated with an increased risk for prostate cancer and certain other cancers. This test includes three genetic variants in the BRCA1 and BRCA2 genes that are most common in people of Ashkenazi Jewish descent.

BRCA1/BRCA2 (Selected Variants)



tell if you have or do not have one of the tested genetic variants. This can be caused by random test error or other factors that interfere with the test.

This result does **not** mean your cancer risk is reduced. You could still have the variant not

not caused by inherited genetic variants, so factors such as lifestyle, environment, and family history are also important. The three genetic variants we tested account for only a small percentage of breast and

ovarian cancer cases. So even though you don't have two of the variants we tested, you still

have a risk of developing breast and ovarian cancer.

Is this answer helpful?

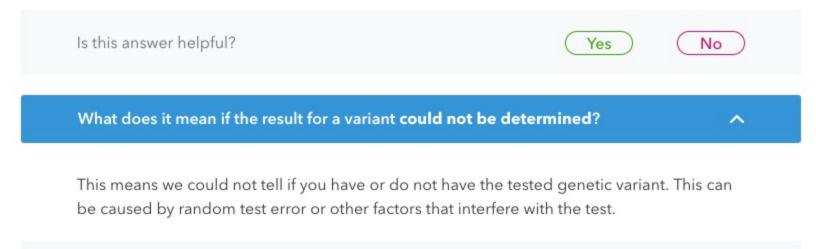
me?

these cancers themselves.

determined or a variant that is not included in this test. In addition, most cases of cancer are

About 1 in 8 women develops breast cancer during her lifetime, and 1 in 80 develops ovarian cancer. The risk is higher in women with a family history of breast or ovarian cancer.

Other factors can also affect your risk of developing breast and ovarian cancer, even if you do not have any genetic variants. Learn more about other factors.



Yes

No

My report says I do not have two of the tested genetic variants. Does this mean

I'm not at risk of developing breast and ovarian cancer?

No. Women who don't have a variant detected still have a risk of developing breast and ovarian cancer. It is still possible that you have the variant we could not determine. You could also have a variant that is not included in this test; more than 1,000 variants in the BRCA1 and BRCA2 genes have been linked to hereditary breast and ovarian cancer. In addition, most cases of cancer are not caused by inherited genetic variants, so factors such as lifestyle, environment, and family history are also important.

About 1 in 8 women develops breast cancer during her lifetime, and 1 in 80 develops ovarian cancer. The risk is higher in women with a family history of breast or ovarian cancer.

Other factors can also affect your risk of developing breast and ovarian cancer, even if you do not have any genetic variants. Learn more about other factors.

Is this answer helpful? No Yes

Women with a family history of breast or ovarian cancer have a higher risk of developing

My report says I do not have two of the tested genetic variants, but I have a personal or family history of breast or ovarian cancer. What does this mean for

You do not have two of the three genetic variants we tested. But we could not determine your result for one variant. In addition, there are more than 1,000 variants in the BRCA1 and BRCA2 genes associated with a greatly increased risk for breast and ovarian cancer. Our test only includes three of those variants. Variants in other genes have also been linked to hereditary breast and ovarian cancer, and non-genetic factors also influence a woman's risk

It is important to discuss your personal or family history of cancer with a healthcare professional, who can help you determine if additional genetic testing is appropriate. Genetic counseling can also help you understand your results and your options for additional testing. Learn more about genetic counseling.

My report says I do not have two of the tested genetic variants but my result for

one variant could not be determined. What are some things I could do?

of developing these cancers. Learn more about other factors.

Is this answer helpful? Yes No

Your genetic result means you do not have two of the three genetic variants we tested. But we could not determine your result for one variant. In addition, because these genetic variants only account for a small percentage of breast and ovarian cancer cases, your result doesn't give you much new information about your risk for these cancers.

There are many other genetic and non-genetic factors that can affect your risk, which this test does not take into account. Learn more about other factors.

It is important to continue with any cancer screenings your healthcare provider recommends. Learn more about cancer screening.

Talk to a healthcare professional if:

- · You have a personal or family history of breast cancer, ovarian cancer, or any other type of cancer.
- You think you might have breast cancer, ovarian cancer, or any other type of cancer.
- You have questions about other risk factors you may have.

Is this answer helpful?



©2018 23andMe, Inc.

Terms of Service

Help







Receive up to \$20 when you refer family and friends to 23 and Me. Get started today.

Have more questions? Check out our Customer Care Help Center.

Yes

