

Hereditary Cancer Genetic Test Results

This report is intended to facilitate a discussion between providers and their patients.

INFORMATION FOR INDIVIDUALS WITH A PATHOGENIC OR LIKELY PATHOGENIC VARIANT IN THE *CDKN2A* GENE

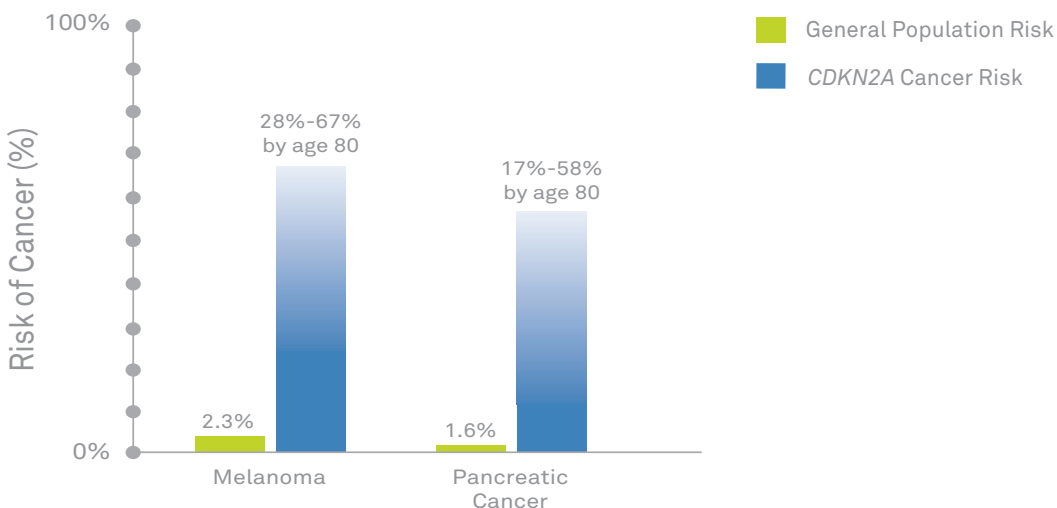
What this result means

Individuals who have a pathogenic or likely pathogenic variant (sometimes called a mutation) in the *CDKN2A* gene have familial atypical multiple mole melanoma (FAMMM) syndrome. Individuals with FAMMM have a higher-than-average chance to develop multiple melanomas and have an increased risk for pancreatic cancer.

Cancer risk

The graph below compares general population cancer risks to the potential cancer risks associated with pathogenic variants in the *CDKN2A* gene. Individual cancer risks may be higher or lower depending on the specific variant identified in addition to each individual's gender, age, medical history, and family history. Not everyone with a pathogenic or likely pathogenic variant will develop cancer.

Information about cancer risks related to pathogenic variants in *CDKN2A* may change over time, so it is important for the ordering healthcare provider, genetic counselor, and patient to keep in contact regarding this result.



*Data on file. Quest Diagnostics, 2022.

Options for managing cancer risk

Guidelines for cancer prevention and early detection are evolving. Individuals with a pathogenic or likely pathogenic *CDKN2A* variant should discuss available screening options for melanoma and pancreatic cancer with their healthcare provider. For more information, see the “Research opportunities” and “Additional resources” sections on the last page. Each individual’s gender, age, medical history, family history, quality of life goals, reproductive desires, general health status, and other medical information should be taken into account when developing a medical management plan.

What this result means for family members

Family members may have the same *CDKN2A* variant that was identified in this individual. Parents, brothers, sisters, and children may each have a 50% chance of having the same variant. Other blood relatives also have an increased risk for the variant. It is important to share these test results with family members to allow each of them to decide if they want to be tested. Some family members may only need testing for this one *CDKN2A* variant, while other relatives may need a more comprehensive test with multiple genes. A genetic counselor or other healthcare provider can help determine the most appropriate testing options.

Reproductive information

Individuals interested in family planning should speak to their doctor and/or genetic counselor to discuss reproductive options. This may include discussion of prenatal diagnosis or pre-implantation genetic testing.

Risk assessment and counseling: an important first step

A genetic counselor or other qualified healthcare professional can help explain test results and what they mean for a patient and family members. A team of specialized Quest genetic counselors or clinical geneticists is available to speak with healthcare providers about test results by calling 1.866.GENE.INFO (1.866.436.3463). Patients can access a directory of independent genetic counselors at [FindAGeneticCounselor.com](https://www.findageneticcounselor.com).





Creating a plan: a checklist for patients

- Get a copy of your genetic test results.
- Talk with your healthcare provider about what this result means and the things you can do to manage your risk.
- Ask your healthcare provider if additional genetic testing may benefit you.
- Share your test results with your family members and give them a copy. Their healthcare provider will need this information in order to provide them with the most accurate risk assessment.
- Talk with your healthcare provider regularly so that you know about any important changes in genetic testing and cancer screening options. Be sure to let them know of any changes in your family history, including family members' genetic test results.
- Consider talking to a genetic counselor about your results.

Research opportunities

Prospective Registry of MultiPlex Testing (PROMPT) PromptStudy.info

GenomeConnect: The ClinGen Patient Portal
GenomeConnect.org

Additional resources

American Academy of Dermatology
aad.org

Quest Hereditary Cancer Testing Solutions
QuestHereditaryCancer.com

Genetic Information Nondiscrimination Act (GINA) GINAhelp.org

National Society of Genetic Counselors
FindAGeneticCounselor.com

This information is not a substitute for medical advice, diagnosis, or treatment. The diagnosis or treatment of any disease or condition may be based on personal history, family history, symptoms, a physical examination, laboratory test results, and other information considered important by a healthcare provider. Always talk with a healthcare provider about the meaning of genetic test results and before stopping, starting or changing any medication or treatment.

The classification and interpretation of the variant(s) identified reflect the current state of Quest Diagnostics' understanding at the time of this report. Variant classification and interpretation are subject to professional judgment, and may change for a variety of reasons including, but not limited to, updates in classification guidelines and availability of additional scientific and clinical information. This test result should be used in conjunction with the healthcare provider's clinical evaluation. Inquiry regarding potential changes to the classification of the variant is strongly recommended prior to making any clinical decision. For questions regarding variant classification updates, please call Quest Diagnostics at 1.866.GENE.INFO (1.866.436.3463) to speak to a genetic counselor or laboratory director, or visit QuestDiagnostics.com/VariantIQ.

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