

Hereditary Cancer Genetic Test Results

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

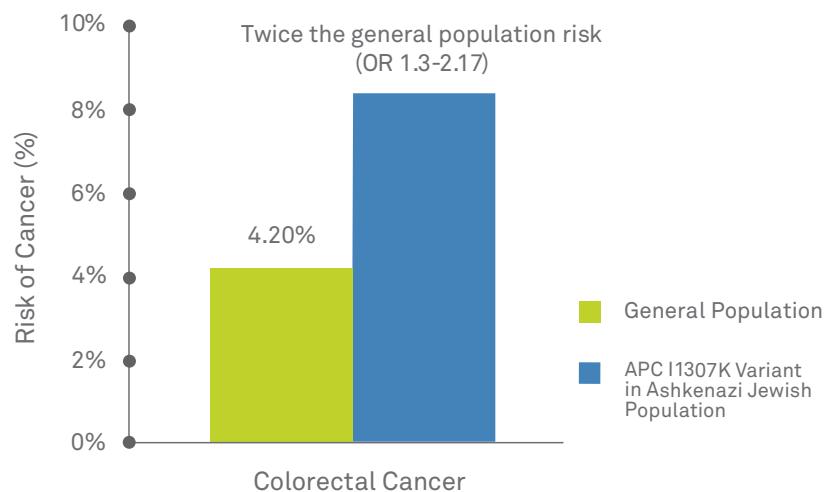
INFORMATION FOR INDIVIDUALS WITH AN APC I1307K VARIANT

What this result means

This result means a specific variant, I1307K, was found in the APC gene. Current data shows that individuals with this variant have a higher than average chance to develop colorectal cancer. This moderately increased risk is more clearly defined in people with Ashkenazi Jewish ancestry.

Cancer risk

The lifetime risk of colorectal cancer in individuals with Ashkenazi Jewish ancestry is increased, with an odds ratio (OR) of 1.3-2.17, which is about two times the general population risk for colorectal cancer. 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 variants is likely to change over time, so it is important for the ordering healthcare provider, genetic counselor, and patient to keep in contact regarding this result.



Options for managing cancer risk

There are options for cancer prevention and early detection. The following are general guidelines for individuals who have the APC I1307K variant. These guidelines are not specific to any one individual. 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.

	Considerations for cancer prevention/early detection	Age to begin	Frequency
Unaffected individuals with a first-degree relative with colorectal cancer	Colonoscopy	40y, or 10y before the age of diagnosis of first-degree relative	Every 5 years
Unaffected individuals with no first-degree relative with colorectal cancer	Colonoscopy	40y	Every 5 years
Individual with colorectal cancer	Tailored surveillance		

What this result means for family members

Family members may have the same *APC* I1307K variant that was identified in this individual. Parents, brothers, sisters, and children 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 *APC* I1307K 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.

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 are available to speak with healthcare providers about test results by calling 1.866.GENE.INFO. 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 him/her 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](https://www.promptstudy.info)

GenomeConnect: The ClinGen Patient Portal
[GenomeConnect.org](https://www.genomeconnect.org)

Additional resources

Quest Hereditary Cancer Testing Solutions
[QuestHereditaryCancer.com](https://www.questhereditarycancer.com)

National Society of Genetic Counselors
[FindAGeneticCounselor.com](https://www.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 to speak to a genetic counselor or laboratory director, or visit [QuestDiagnostics.com/VariantIQ](https://www.questdiagnostics.com/VariantIQ).