

Understanding Your Positive Familial Hemiplegic Migraine (FHM) Genetic Test Result

INFORMATION FOR PATIENTS WITH A PATHOGENIC MUTATION OR VARIANT THAT IS LIKELY PATHOGENIC

Result	MUTATION	The testing done for you/your family member shows a pathogenic mutation (a disease-causing change in the gene, like a spelling mistake), or a variant that is likely disease-causing, in a gene that causes familial hemiplegic migraine (FHM). Both pathogenic mutations and variants that are likely disease-causing should be treated as the same type of positive result.
Gene	DEFINITION	Genes are instructions for how our bodies work and develop. Everyone has two copies of each gene, one from each parent. Mutations (changes in the gene, like spelling mistakes) in certain genes can cause FHM. These mutations may be passed down in families or be brand new for the person who has FHM. Even if there is no history of FHM in your family, it can still be caused by a change in a gene.
Cause	GENETIC	There are many causes for migraines and other symptoms of FHM. However, the testing done confirms a genetic cause for the symptoms of FHM in you/your family member. FHM can cause a variety of medical problems. Talk with your healthcare provider to learn more about whether you/your family member might need any additional medical screening.
Management Options	FOR PATIENTS WITH FHM	Some genetic test results can help identify specific treatments that are more or less likely to be helpful. Treatment options can include medication or avoiding certain situations that can provoke seizures. Knowing the genetic cause of your/your family member's symptoms may help to avoid some tests or procedures. Talk to your healthcare provider about which may be right for you/your family member.
Family Members	VARIES	In some families, gene mutations that cause FHM can be inherited. Your healthcare provider can talk with you more about the inheritance pattern of FHM based on this test result and your family history, and what this means for the rest of your family.
Next Steps	DISCUSS	It is recommended that you share this information with family members so they can learn more and discuss this with their healthcare providers. Talk to your healthcare provider about who in your family might benefit from considering this testing.
Reach Out	RESOURCES	<ul style="list-style-type: none"> ▪ Ambry's Neurology Site for Families patients.ambrygen.com/neurology ▪ American Migraine Foundation americanmigrainefoundation.org ▪ National Society of Genetic Counselors nsgc.org ▪ Canadian Association of Genetic Counselors cagc-accg.ca

Please discuss this information with your healthcare provider. The field of genetics is continuously changing, so updates related to your genetic testing result, medical recommendations, and/or potential treatments may be available over time. This information is not meant to replace a discussion with a healthcare provider, and should not be considered or taken as medical advice.